

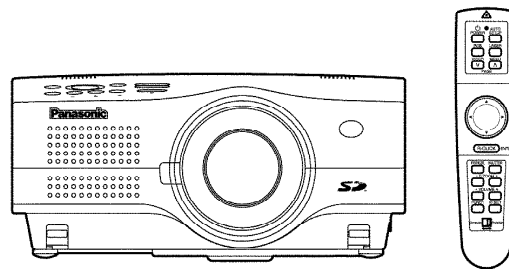
ORDER NO. VED0209334C0

D10

Service Manual

LCD Projector

PT-L780NTU / PT-L780NTE / PT-L750U / PT-L750E



SPECIFICATIONS

The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power supply:

100 V - 240 V AC, 50 Hz / 60 Hz

Power consumption:

380 W [During standby (when fan is stopped):

Approx. 3.5 W] (When the WEB STANDBY is set to "ON":

Approx. 43 W)

Amps:

3.5 A - 1.5 A

LCD panel:

Panel size (diagonal): 1.0 type (25.4 mm)

Aspect ratio: 4:3 (16:9 compatible)

MLA

PT-L780NTU/NTE: with MLA

PT-L750U/E: without MLA

Display method: 3 transparent LCD panels (RGB)

Drive method: Active matrix method

Pixels: 786 432 (1 024 × 768) × 3 panels

Lens:

Electric zoom (1 - 1.3) / focus lens

F 1.7 - 2.1, f 40.7 mm - 52.8 mm

Lamp:

UHM lamp (270 W)

Luminosity:

PT-L780NTU/NTE: 3 200 lm / ANSI

PT-L750U/E: 2 500 lm / ANSI

Scanning frequency (for RGB signals):

Horizontal scanning frequency:

15 kHz - 91 kHz

Vertical scanning frequency:

50 Hz - 87 Hz

Dot clock frequency:

140 MHz or less

YPbPr signals:

525i (480i), 625i, 525p (480p), 750p (720p),

HDTV60 (1080i/60), HDTV50 (1080i/50)

Color system:

7 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / PAL60 / SECAM)

Projection size:

1 016 mm - 7 620 mm

Throw distance:

1.6 m - 16.0 m

Optical axis shift:

10:0 (fixed)

Screen aspect ratio:

4:3

Installation:

Front / Rear / Ceiling / Desk (Menu selection method)

Speaker:

4.0 cm × 3.0 cm oval × 2

Max. useable volume output:

2 W + 2 W

Connectors:

DVI-D IN: Single-line DVI-D 24-pin

RGB IN / OUT: Dual-line D-SUB HD 15-pin (female)

(One-line is available for input and output),

Single-line BNC × 5

During YPbPr input/output:

Y: 1.0 V [p-p], 75 Ω

PbPr: 0.7 V [p-p], 75 Ω

During RGB input/output:

RGB: 0.7 V [p-p], 75 Ω

G.SYNC: 1.0 V [p-p], 75 Ω

HD / SYNC: TTL high impedance, automatic

plus/minus polarity compatible

VD: TTL high impedance, automatic

plus/minus polarity compatible

AUDIO IN (for RGB): Single-line 0.5 V [rms] M3 jack

(Stereo MINI)

VIDEO IN: Single-line, RCA pin jack

1.0 V [p-p], 75 Ω

S-VIDEO IN: Single-line, Mini Din 4-pin

Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω,

AUDIO IN (for S-VIDEO / VIDEO):

0.5 V [rms] RCA pin jack × 2 (L-R)

AUDIO OUT: Single-line 0.5 V [rms] M3 jack (Stereo MINI)

(Monitor output/stereo compatible)

0 V [rms] - 1.0 V [rms] (variable)

Serial connector: D-sub 9p (female) RS-232C compatible

Remote connector: D-SUB 9-pin (female) for remote control

USB connector: Rectangle 4-pin type B

Cabinet:

Molded plastic (ABS/PC)

Dimensions:

Width: 290 mm (without cable cover)

Height: 137 mm

Length: 406 mm (without lens cover)

Weight:

PT-L780NTU/NTE: 5.9 kg

PT-L750U/E: 5.8 kg

Operating environment:

Temperature: 0° C - 40° C

(When the FAN CONTROL is set to "HIGH";

0° C - 35° C)

Humidity: 20 % - 80 % (no condensation)

Certifications:

PT-L780NTU/L750U: UL1950, C-UL, FCC

PT-L780NTE/L750E: EN60950, EN55022, EN61000-3-2,

EN61000-3-3, EN55024

<Remote control unit>

Power supply:

3 V DC (AAA battery × 2)

Operating range:

Approx. 7 m

(when operated directly in front of signal receptor)

Weight: 108 g (including battery)

Dimensions:

Width: 33 mm

Height: 40 mm

Length: 168 mm

Accessories:

Remote control unit (N2QAEA000011): 1

AAA batteries for remote control unit : 2

Power cord:

for North America (K2CG3FZ00008): 1

for U.K. (K2CT3FZ00001): 1

for Continental Europe (K2CM3FZ00001): 1

Video/Audio cable [K2KA2FA00001 (3.0 m)]: 1

RGB signal cable [K1HB15FA0001 (3.0 m)]: 1

USB cable [K1HB04FD0002 (3 m)]: 1

Cable cover [TXFKR01VJN1]: 1

CD-ROM [TQBH9003 (PT-L780NTU/NTE only)]: 1

SD memory card (8MB, RP-SD008BEZ0): 1

(PT-L780NTU/NTE only)

Protective case for SD memory card (RP-SDCC0): 1

(PT-L780NTU/NTE only)

Slot cover (for projector LAN card) (TKKL5243) 1

(PT-L780NTU/NTE only)

Options:

Ceiling bracket: ET-PK780

Ceiling bracket (for low ceilings): ET-PK780S

Wireless mouse receiver: ET-RMRC1

Wide conversion lens: ET-LEC701

Wireless card: ET-CDWL1*

LAN card: ET-CDLAN1

Projection lens:

ET-LE10 (for a short-distance projection)

ET-LE20 (for a medium-distance projection)

ET-LE30 (for a long-distance projection)

* Specifications are subject to change without notice.

* Weight and dimensions shown are approximate.

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WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Trademark Acknowledgements

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 - VGA and XGA are trademarks of International Business Machines Corporation.
 - Macintosh is a registered trademark of Apple Computer, Inc.
 - S-VGA is a registered trademark of the Video Electronics Standards Association.
 - Windows is a trademark or registered trademark of Microsoft Corporation in the United States of America and other countries.
- All other trademarks are the property of the various trademark owners.

Precaution

If using this projector at high elevations (above 1 400 m), set the FAN CONTROL to HIGH. (Refer to "Option settings" in Operating Instructions.)

Failure to observe this may cause malfunctions.

Never use this projector at an elevation of 2 700 m or higher.

Using this projector at high elevations, consult your dealer or Authorized Service Center about preparations.

About lead free solder (PbF)

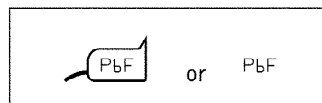
This projector is using the P.C.Board which applies lead free solder. The use of lead free solder is recommended from the standpoint of antipollution for the global environment in service.

Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically, the melting point is 30°C to 40°C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to 370±10°C.
- Be cautious about lead free solder: Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as "PbF") which uses lead free solder. (When you unavoidably use lead solder, use lead solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After soldering to double layered P.C.Boards, check the component side for excess solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board

For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.



For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any unauthorized changes or modifications to this equipment will void the users authority to operate.

1. Safety Precautions

1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.
- Unplug the power cord from the power outlet before disassembling

this projector.

- It is advisable to use an isolation transformer in the AC power line before the service.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in .

Be sure to use a voltmeter having the performance described in Table 1.

Fig. 1

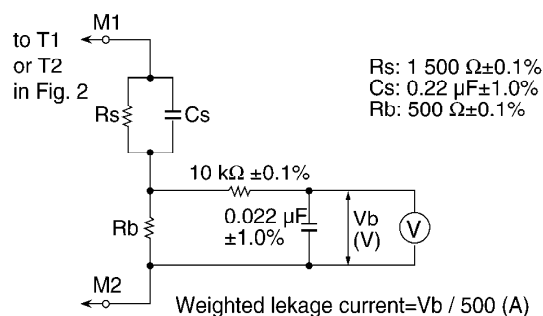
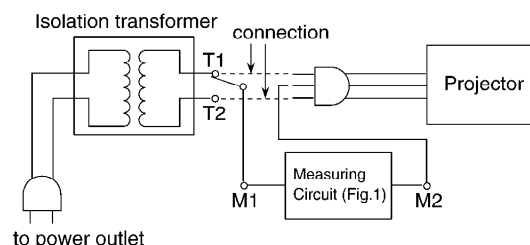


Table 1

	Performance
Voltmeter (rms reading)	Accuracy: $\leq 2\%$
	Input resistance: $\geq 1 \text{ M}\Omega$
	Input capacitance: $\leq 200 \text{ pF}$
	Frequency range: 15 Hz to 1 MHz

Fig. 2



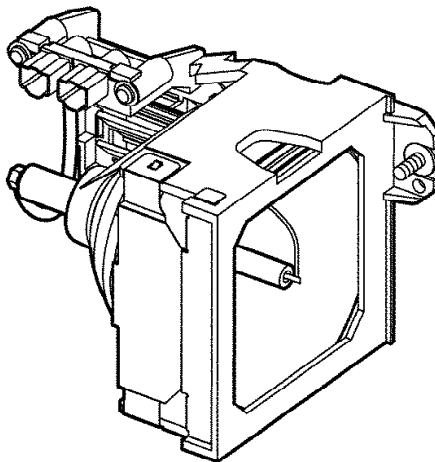
2. Assemble the circuit as shown in Plug the power cord in a power outlet.

3. Connect M1 to T1 according to and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- Because the high pressure lamp involves a risk of explosion, never touch the lamp wire lead during the service. (See)

Fig. 3



2. Ext Option

This projector has EXT OPTION in addition to standard on-screen menus.

- There are SELF CHECK and TEST PATTERN (Service Mode) for service, etc.

2.1. Procedure to enter EXT OPTION

1. Press "MENU" button on the main unit or remote control unit to display "MENU" screen.
2. Select "OPTION" menu using "◀" and/or "▶" buttons.
3. Select "OSD" and press "ENTER" button 3 seconds or longer.
MENU → OPTION → OSD

2.2. EXT OPTION Menu and Functions

EXT OPTION

ANGLE RESET		
FREEZE MESSAGE	OFF	ON
FAN FULL MODE	OFF	ON
SELF CHECK		
TEST PATTERN		

- ANGLE RESET

Resetting "AUTO KEYSTN (Automatic Keystone)" reference level (reset when pressing "ENTER" button)

Note:

- Normally, do not select "ANGLE RESET" and press "ENTER" button. (Angle reset data will be rewritten.)

- FREEZE MESSAGE

Switching ON/OFF "FREEZE" on-screen display

- FAN FULL MODE

Switching ON "FAN FULL MODE", the rotation level of the fan becomes high-speed rotation (fixed). Moreover, when "FAN FULL MODE" is ON, changing "FAN CONTROL" in OPTION menu becomes impossible (setting FAN FULL MODE is given priority more than FANCONTROL).

Caution:

- Switching ON "FAN FULL MODE" while used usually (at an elevation of lower than 1 400 m), this may cause malfunctions.
- SELF CHECK

To enter the self-check mode
- TEST PATTERN

To enter the service mode

2.3. Canceling EXT OPTION

Press "MENU" button on the main unit or remote control unit.

3. Self-Check Mode

This mode is used to narrow down the location of the failure.

3.1. Procedure to enter the self-check mode

Select "SELF CHECK" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

3.2. Self Check Display and Contents

Display example

①	Main	****	PW265	****	22
②	SD/NT	****	Altera	****	23
③	SET RUN TIME	**** h			
④	G SAVED	OK	U SAVED	OK	24
⑤	TEMP STATUS	OK			25
⑥	TEMP1	***	TEMP3	***	26
⑦	TEMP2	***	TEMP3[0]	***	27
⑧	ANGLE	****	ANGLE[0]	****	
⑨	DEGREE	***			
⑩	FAN STATUS	OK			
⑪	LAMP STATUS	OK			
⑫	LAMP 1500H	OK	LAMP RESET	***	28
⑬	LAMP[1]	**** h	****	**** h	
⑭	LAMP[2]	**** h	****	**** h	
⑮	LAMP[3]	**** h	****	**** h	
⑯	FREQUENCY	Fh: *** KHz	Fv: *** Hz		
⑰	Display dot	****	dot		
⑱	Display Line	****	Line		
⑲	Total dot	****	dot		
⑳	Total Line	****	Line		
㉑	MODE	**			

* This display is an example and the display contents depend on the input signal mode.

The result of items "G SAVED", "U SAVED" and "LAMP 1500H", "OK" is displayed for OK and "NG" is displayed for NG.

The result of items "TEMP STATUS", "FAN STATUS", "LAMP STATUS" and "LAMP 1500H", the OK display becomes red characters when shutting down because abnormality happened last time.

	Display Contents	Remarks
①	Main Microcomputer Version Display	Main Microcomputer (IC1010) Software Version
②	SD Microcomputer Version Display	SD Microcomputer (IC2009) Software Version
③	Total Usage Time	Projector Cumulative Usage Time
④	Gamma Correction Data Check	It is distinguished whether gamma data is stored in the flash ROM.
⑤	Temperature Abnormality Check	Cause of Lamp Malfunction
⑥	Thermosensor 1 Measurement Value *1	Around Air Outlet (A/D conversion value: 0 - 255)
⑦	Thermosensor 2 Measurement Value *1	Around Air Inlet (A/D conversion value: 0 - 255)
⑧	Tilt Sensor Measurement Value	A/D Conversion Value (0 - 1023)
⑨	Tilt Degree *2	Degree of tilt of the projector, that is a value by which temperature correction is given to the tilt sensor A/D conversion value. (When automatic keystone, the keystone distortion is corrected with this value.)
⑩	Fan Stop Check	Cause of Lamp Malfunction
⑪	Lamp - Abnormality Check	Cause of Lamp Malfunction
⑫	Lamp - Judgment for Cumulative Usage more than 1 500 h *3	Judgment for Replacement Time of Lamp
⑬	Lamp ON - Cumulative Usage Time /	Cumulative Usage Time (actual time), ON Frequency and Cumulative Usage Time (conversion time for 220 W) of the lamp are shown from the left.
⑭	Frequency / Cumulative Usage Time	
⑮		
⑯	Horizontal Signal Frequency	PW265 Detection Value
⑰	Vertical Signal Frequency	PW265 Detection Value
⑱	Display Dots	PW265 Detection Value
⑲	Display Lines	PW265 Detection Value
⑳	Total Dots	PW265 Detection Value
㉑	Total Lines	PW265 Detection Value
㉒	Mode Table Number	PW265 Detection Value
㉓	PW265 Version Display	PW265 (IC1005) Software Version
㉔	FPGA Version Display *4	FPGA (IC1007) Software Version
㉕	Color Unevenness Correction Data Check	It is distinguished whether color unevenness correction data is stored in the flash ROM.
㉖	Thermosensor 3 Measurement Value	Around Tilt Sensor (A/D conversion value: 0 - 255)
㉗	Thermosensor 3 Reference Value	Thermosensor 3 A/D Conversion Value (0 - 255) at angle reset
㉘	Tilt Sensor Reference Value	Tilt Sensor A/D Conversion Value (0 - 1023) at angle reset
㉙	Lamp - Reset Frequency of Cumulative Usage Time	Reset Frequency (0 - 255)

*1 When detected abnormal temperature (high temperature around the air inlet and/or outlet ports, large difference between temperature around the air inlet/outlet ports), TEMP indicator turned on. If arriving at the critical temperature, the power supply will be shutdown automatically and the indicator will flash.

*2 When "AUTO KEYSTN (Automatic Keystone)" is set to ON, the keystone distortion is corrected automatically with this value during automatic setup.

*3 Warning of the lamp cumulative usage time and shutdown use the conversion time for 220 W.

*4 FPGA (Field Programmable Gate Array)
LSI that is rewritable quickly while inspecting the program by system designer. (This will be able to reduce the development time.)

3.3. Canceling the self-check mode

Press "MENU" button on the main unit or remote control unit.

4. Service Mode

This mode is used to display five kinds of test patterns [Horizontal lines, Vertical lines, Dots, Crosshatch and White (No pattern)] in the four colors (White, Red, Green and Blue).

Note:

- On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for simplified adjustments by your eyes and so on.

4.1. Procedure to enter the service mode

Select "TEST PATTERN" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

Note:

- In the service mode, pressing the up-arrow "▲" or down-arrow "▼" button allows the test pattern selection and the left-arrow "◀" or right-arrow "▶" button the color selection (White / Red / Green / Blue).

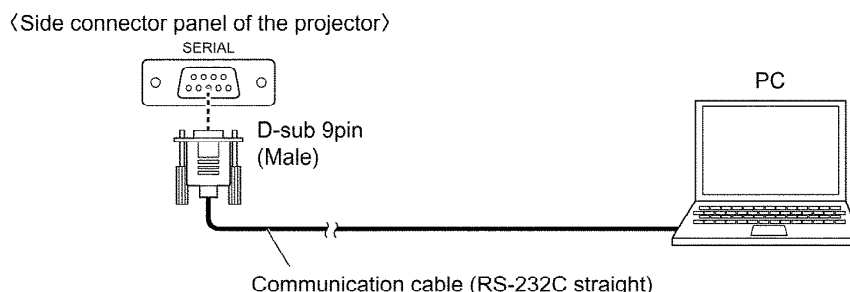
4.2. Canceling the service mode

Press "MENU" button on the main unit or remote control unit.

5. Using the SERIAL Connector

The serial connector which is on the side connector panel of the projector conforms to RS-232C standard. This projector can be controlled by a PC which is connected as shown in "5.1. Connection". For controlling this projector by a PC, requires communication software on the market, and inputs control commands according to communication settings and basic format below.

5.1. Connection

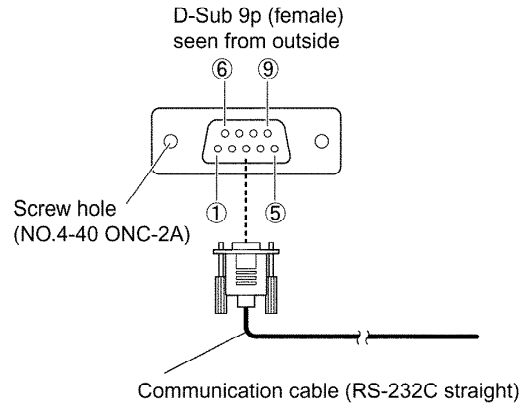


Note:

Use a proper communication cable which is suitable for the PC to connect SERIAL connector

and the PC.

5.2. Pin Layout and Signal Names for SERIAL Connector



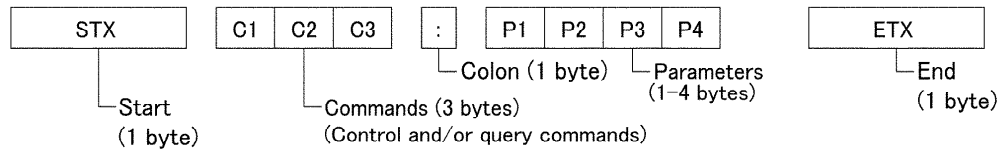
Pin No	Signal Name	Contents
1	---	NC
2	TXD	Transmit data
3	RXD	Receive data
4	---	NC
5	GND	Ground
6	DSR	Connected internally
7	CTS	
8	RTS	
9	---	NC

5.3. Communication Settings

Signal Level	Contents		Description
Sync. method	Conforms to RS-232C standard	Asynchronous	Synchronizes every 1 character (bits)
Baud rate		9 600 bps	Data transfer speed
Parity		None	Error detection method
Character length		8 bits	Number of bit composing 1 character
Stop bit		1 bit	Uses stop bit when asynchronous method
X parameter		Not used	
S parameter		Not used	

5.4. Basic Format

The data sent from the PC to the projector is transmitted in the format shown below.



Notes:

- If sending multiple commands, check that a call back has been received from the projector for 1 command before sending the next command.
- When a command which does not require parameters is sent, the colon (:) is not required.

5.5. Control / Query Commands

Control Commands

Command Name (Parameter format is shown in <>)	Function / Contents	Call back from Projector (Parameter format is shown in <>)	Minimum Value of Parameter	Maximum Value of Parameter
PON *	POWER ON	PON	—	—
POF *	POWER OFF	POF	—	—
AVL : <pl>	VOLUME	AVL : <pl>	0	63
IIS : <input signal>	INPUT SELECT	IIS : <input signal>	—	—
OST	STANDARD	OST	—	—
OFZ : <off_on>	FREEZE	OFZ : <off_on>	0	1
OEN :	ENTER	OEN	—	—
VPM : <picture mode>	PICTURE MODE	VPM : <picture mode>	—	—
AUU	VOLUME UP	AUU	—	—
AUD	VOLUME DOWN	AUD	—	—
OMN	MENU	OMN	—	—
OCU	CURSOR UP	OCU	—	—
OCD	CURSOR DOWN	OCD	—	—
OCL	CURSOR LEFT	OCL	—	—
OCR	CURSOR RIGHT	OCR	—	—
OAS	AUTO SETUP	OAS	—	—
OSH *	SHUTTER	OSH	—	—
DZU	D.ZOOM UP	DZU	—	—
DZD	D.ZOOM DOWN	DZD	—	—
OLP : <lamp power> *	LAMP POWER	OLP : <lamp power>	0	1
OSI : <RemoconID>	REMOCON ID	OSI : <RemoconID>	0	99
OAF : <time>	AUTO POWER OFF	OAF : <time>	0	60

* Do not transmit the PON, POF, OSH and/or OLP commands continuously in a short time.
The lamp may be damaged and/or cause malfunctions.

Query Commands

Query Command	Contents	Call back from Projector (Parameter format is shown in < >)
QPW	POWER CONDITION	<power condition>
QIN	INPUT SIGNAL	<input signal>
QAV	VOLUME LEVEL	<p>
QVC	COLOR LEVEL	<p>
QVT	TINT LEVEL	<p>
QVB	BRIGHT LEVEL	<p>
QVR	CONTRAST LEVEL	<p>
QVS	SHARPNESS LEVEL	<p>
QWR	WHITE BALANCE LEVEL (RED)	<p>
QWG	WHITE BALANCE LEVEL (GREEN)	<p>
QWB	WHITE BALANCE LEVEL (BLUE)	<p>
QHP	H-POSITION LEVEL	<p>
QVP	V-POSITION LEVEL	<p>
QCP	COLOR PHASE LEVEL	<p>
QDC	DOT CLOCK LEVEL	<p>
QSP	INSTALLATION	<installation>
QLG	LANGUAGE	<language>
QPM	PICTURE MODE	<(NAT) = Natural (STD) = Standard (DYN) = Dynamic >
QFZ	FREEZE	<off_on>
QLP	LAMP POWER	<lamp power>
QSL	LAMP ON TIME	<acctch>
QSH	SHUTTER	<off_on>
QKV	V-KEYSTONE	<p>
QKH	H-KEYSTONE	<p>
QRI	RGB2 SELECT	<(RGB2 select)>
QTE	COLOR TEMPERATURE	<color temp.>
QSI	REMOCON ID	<(RemoconID)>
QAF	AUTO POWER OFF	<time>

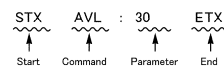
Parameters

Parameter Format	Parameter Size (Byte)	Parameter Definition
<p>	3 (provided that approves of 1 byte or 2 bytes when control)	Decimal notation without plus/minus sign (0 to 999). Decimal notation with plus/minus sign (-99 to +99). Returns 3 bytes call back from the projector. Decimal notation without plus/minus sign (000, 001, 002, ..., 999).
<off_on>	1	0=OFF, 1=ON
<input signal>	3	VID = VIDEO, SVD = S-VIDEO, RG1 = RGB1, RG2 = RGB2, RG3 = RGB3, DVI = DVI NWP = NETWORK (PT-L780NT* only), SDC = SD CARD (PT-L780NT* only)
<installation>	1	0=FRONT/DESK, 1=REAR/DESK, 2=FRONT/CEILING, 3=REAR/CEILING
<language>	3	ENG=English, DEU=German, FRA=French, ESP=Spanish, ITA=Italian, JPN=Japanese, CHI=Chinese
<power condition>	3	000=Power OFF, 001=Power ON
<acctch>	4	Decimal notation without plus/minus sign: 0000 hour to 9999 hours
<picture mode>	3	NAT=Natural, STD=Standard, DYN=Dynamic
<lamp power>	1	0=LOW, 1=HIGH
<color temp.>	1	0=LOW, 1=STD, 2=HIGH
<(RGB2 select)>	3	ZIN=INPUT, ZOU=OUTPUT
<(RemoconID)>	2	0 to 99
<(when controlling, 1 byte is acceptable)>	2	0 = OFF, 15-60 = AUTO POWER OFF time (15, 20, ..., 55, 60) [unit: min.]
<time>	2	
<(when controlling, 1 byte is acceptable)>	2	

* If an incorrect command is sent from the PC, the "ER401" command will be sent from the projector to the PC.

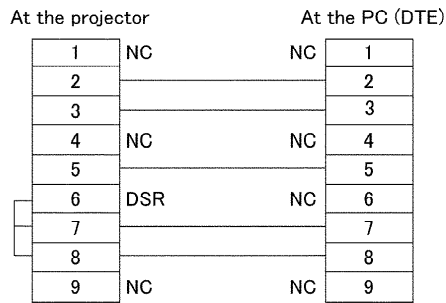
[Example]

When controls the audio volume to +30 by a PC
(Sends commands as the following:)



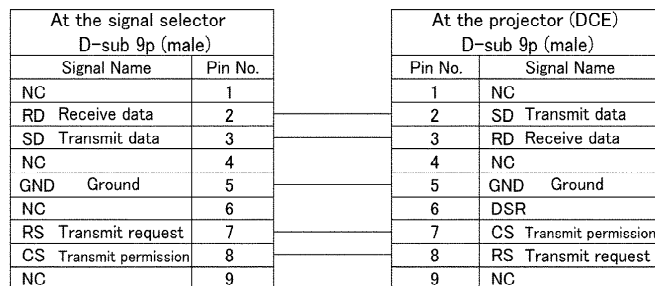
- When a command which does not require parameters is sent, the colon (:) is not required.

5.6. Communication Cable Specifications



5.7. Signal Selector Connecting Cable Specifications

When connecting to a signal selector (ex. TW-SWS62J), use a cable with specifications below.
Connecting method: Connects a video signal cable from the signal selector to "VIDEO IN", and an RGB signal cable to "RGB1 IN".



Note:

Set VP control terminal switch of the signal selector to VP TYPE "B".

6. Using the REMOTE Connector

6.1. Control Method

Controls by each terminal of the REMOTE connector is grounded (connect to pin 1).

6.2. Pin Layout and Signal Names for REMOTE Connector

The connector used is the same as "SERIAL connector".

Note:

Refer to section 5.2. "Pin Layout and Signal Names for SERIAL Connector" for the pin layout.

Pin No	Signal Name	Contents
1	GND	Ground
2	POWER	Power (Lamp) ON
3	INPUT SEL3	Input signal select 3
4	—	NC
5	INPUT SEL1	Input signal select 1
6	INPUT SEL2	Input signal select 2
7	—	NC
8	—	NC
9	ENABLE	Enables remote control

* When the pin 2 is open, the projector is in standby condition.

6.3. Switching the Input Mode

The input mode can be switched by combining the input signal select terminals (pins 3, 5 and 6).

	RGB1	RGB2	RGB3	VIDEO	S-VIDEO	DVI
Pin 3	H	H	L	L	L	H
Pin 5	H	L	H	H	L	H
Pin 6	H	H	L	H	H	L

* H: Open, L: Ground (connect to pin 1)

6.4. Caution and Limitations

- Do not ground pins 1, 2, 3, 5 and 6, when the remote control is disable (pin 9 is open). The projector will ignore signals from the remote control unit.
- The POWER, RGB and VIDEO buttons will not operate when the remote control is enable (pin 9 is grounded).
- It is impossible to switch to "NETWORK" and "SD CARD" by the remote control.

7. Disassembly Instructions

Warning:

- Be sure to unplug the power cord from the power outlet before disassembling this projector.

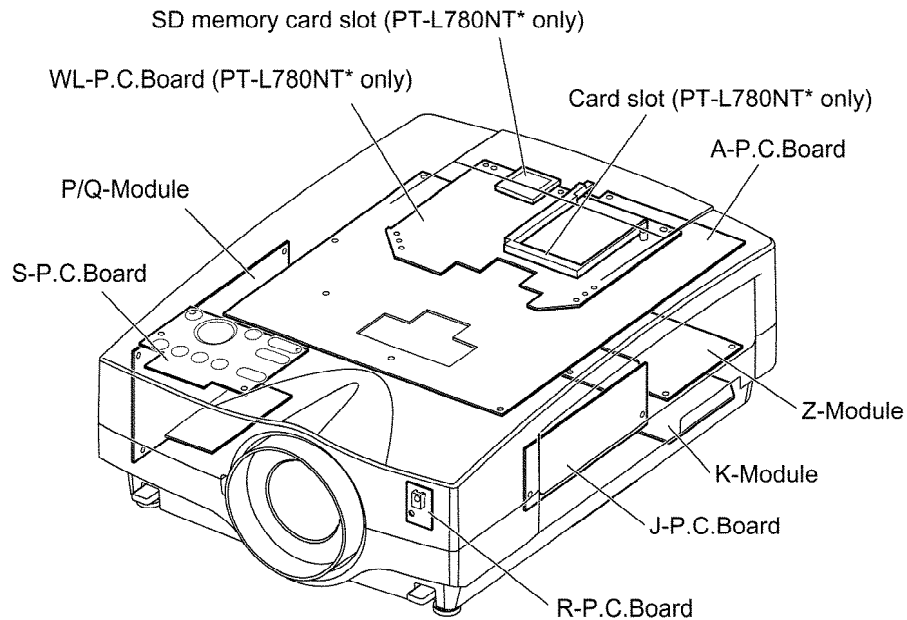
Caution:

- While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.
- Printed circuit boards and wires must not be pulled forcibly, but be handled carefully.
- Connectors also must be handled carefully.

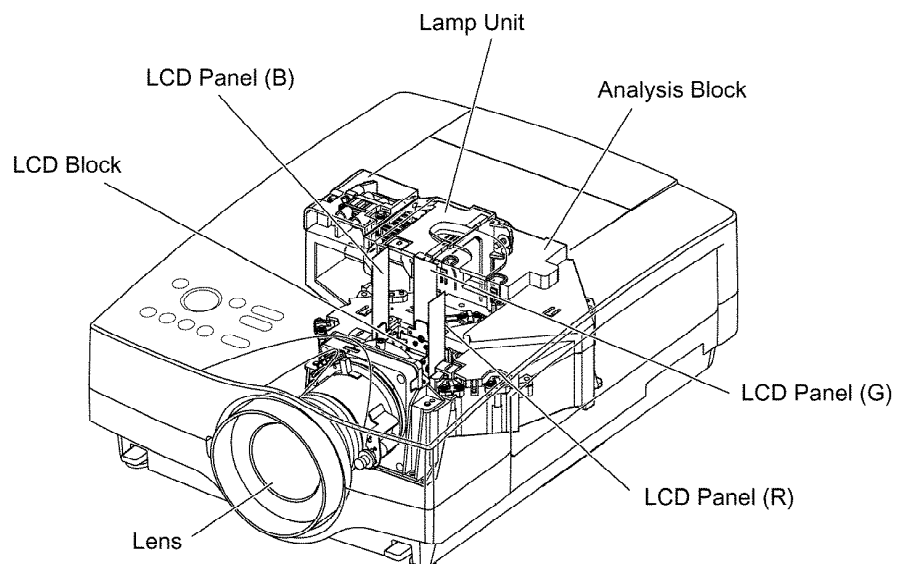
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

7.1. Printed Circuit Board and Main Parts Location

Electrical Parts

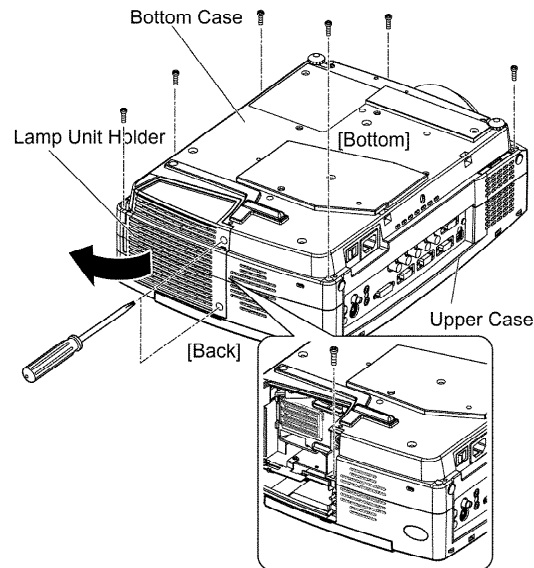


Optical Parts



7.2. Removal of Upper Case

1. Turn the projector upside down.
2. Loosen the 2 screws until they idle, open the lamp unit holder.
3. Unscrew the 7 screws.



4. Return the projector to the normal position.

Note:

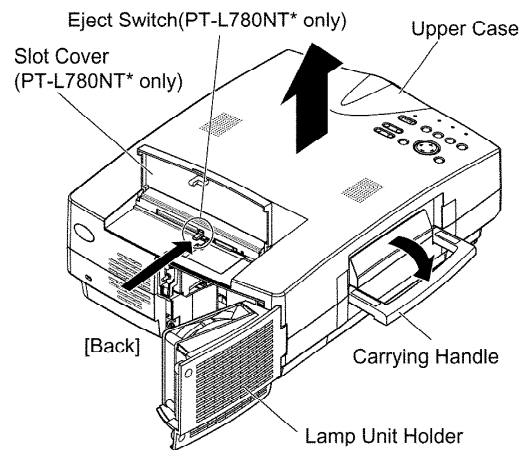
- Pay attention the lamp unit holder must not be fixed.

5. Push the eject switch (PT-L780NT* only).

Notes:

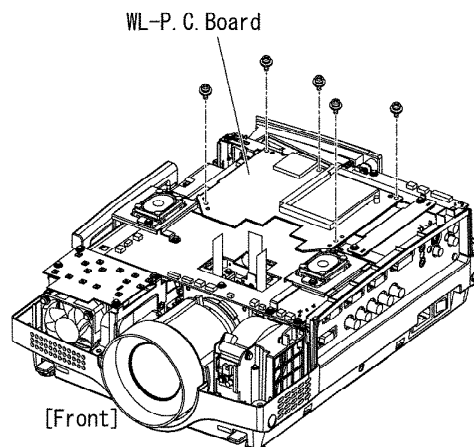
- Remove the upper case after the eject switch in the slot cover is pushed.
- If removing the upper case with the eject switch is protruded, they may be damaged.

6. Open the carrying handle.
7. Remove the upper case.



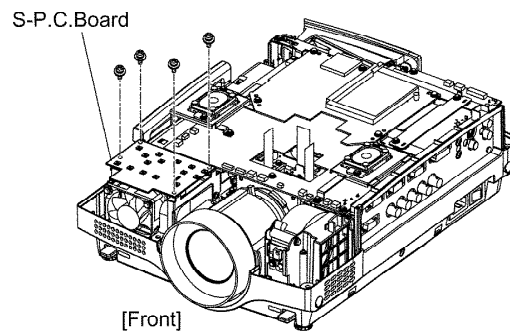
7.3. Removal of WL-P.C.Board (PT-L780NT* only)

1. Remove the upper case according to the section 7.2. "Removal of Upper Case".
2. Disconnect the flexible cable to the WL-P.C.Board.
3. Unscrew the 5 screws and remove the WL-P.C.Board.



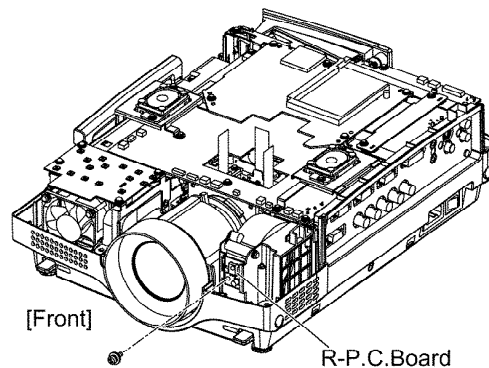
7.4. Removal of S-P.C.Board

1. Remove the upper case according to the section 7.2. "Removal of Upper Case".
2. Unscrew the 4 screws and remove the S-P.C.Board.



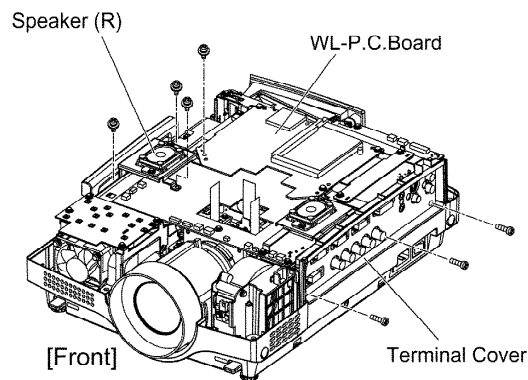
7.5. Removal of R-P.C.Board

1. Remove the upper case according to the section 7.2. "Removal of Upper Case".
2. Unscrew the 1 screw and remove the R-P.C.Board.

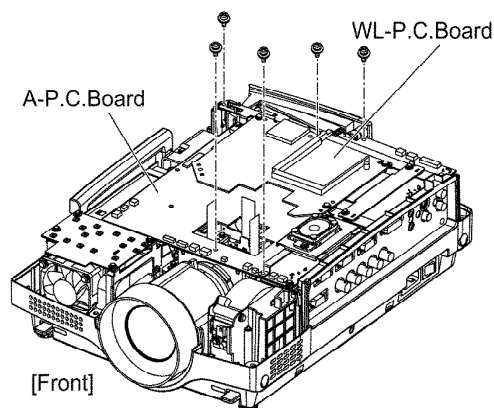


7.6. Removal of A-P.C.Board

1. Remove the upper case according to the section 7.2. "Removal of Upper Case".
2. Unscrew the 3 screws fixing the terminal cover.
3. Unscrew the 4 screws and remove the speaker (R) with the metal fittings.



4. Unscrew the 5 screws fixing the A-P.C.Board block.



5. Disconnect the connectors from/to the A-P.C.Board.

6. Take the A-P.C.Board block out from the main unit of the projector.

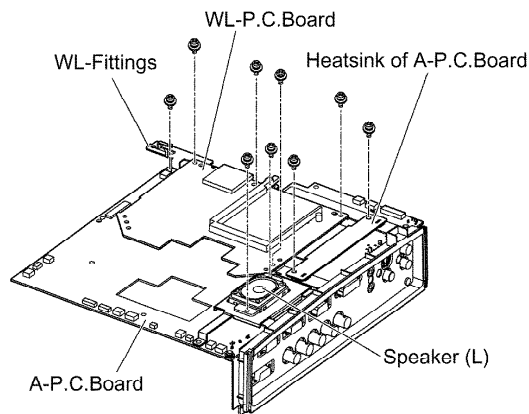
<Disassembling the A-P.C.Board Block>

7. Unscrew the 4 screws and disconnect the flexible cable to the WL-P.C.Board, then remove the WL-P.C.Board (PT-L780NT* only).

8. Unscrew the 2 screws and remove the heatsink of A-P.C.Board.

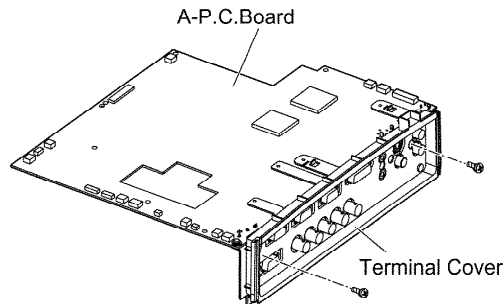
9. Unscrew the 2 screws and remove the speaker (L).

10. Unscrew the 1 screw and remove the WL-fittings.



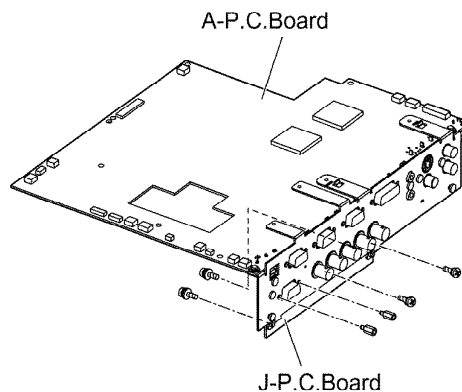
<Removing the J-P.C.Board>

11. Unscrew the 2 screws and remove the terminal cover.



12. Unscrew the 2 hex-head screws and 2 ornament screws.

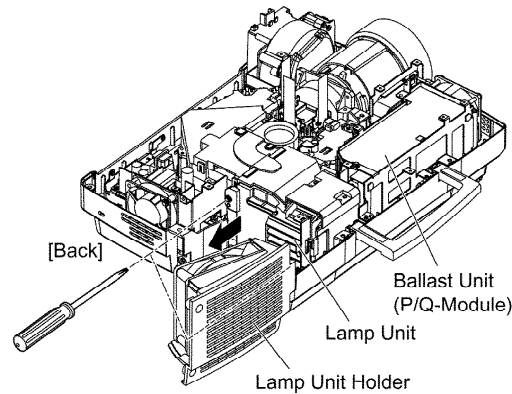
13. Unscrew the 2 screws and remove the heatsink of J-P.C.Board.



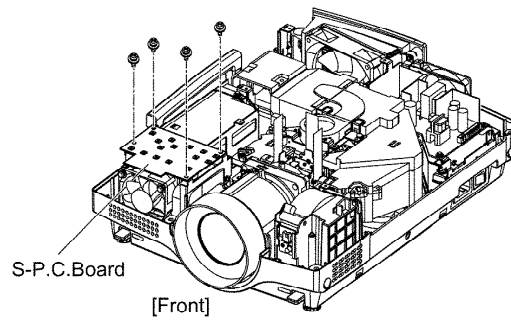
7.7. Removal of Ballast Unit (P/Q-Module)

1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 7.6. "Removal of A-P.C.Board".

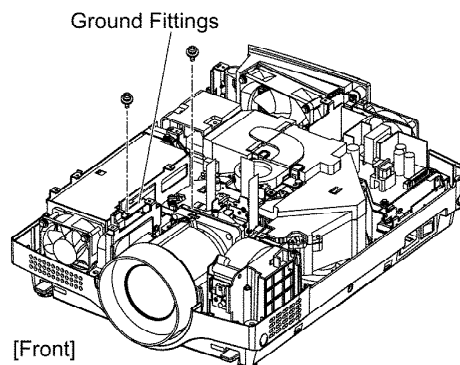
2. Loosen the 2 screws until they idle and remove the lamp unit.



3. Unscrew the 4 screws and remove the S-P.C.Board.

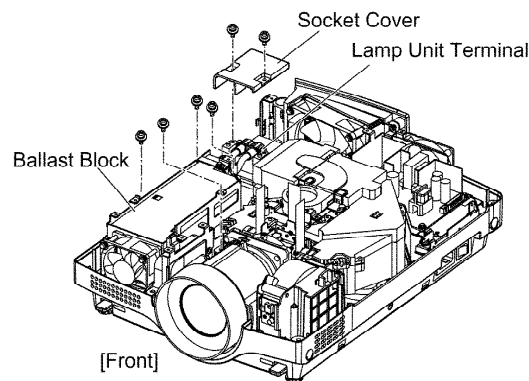


4. Unscrew the 2 screw and remove the ground fittings.

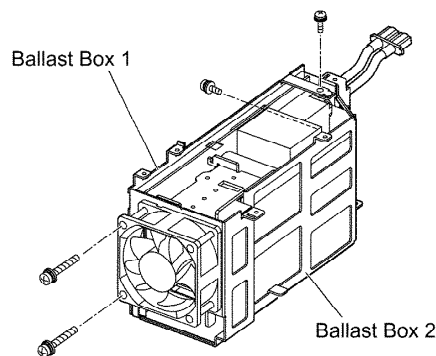


5. Unscrew the 2 screw and remove the socket cover, then remove the lamp unit terminal.

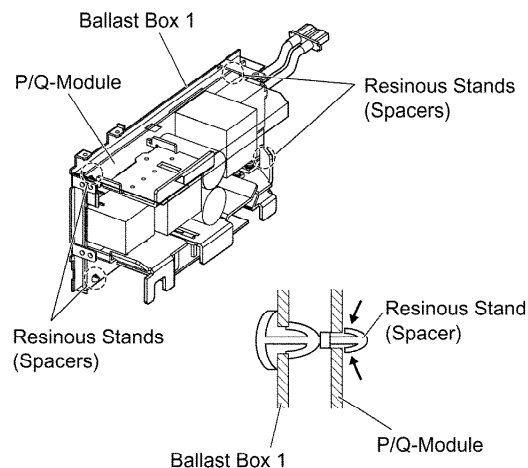
6. Unscrew the 4 screw and remove the ballast block.



7. Unscrew the 4 screw and separate the ballast box 1 and 2.



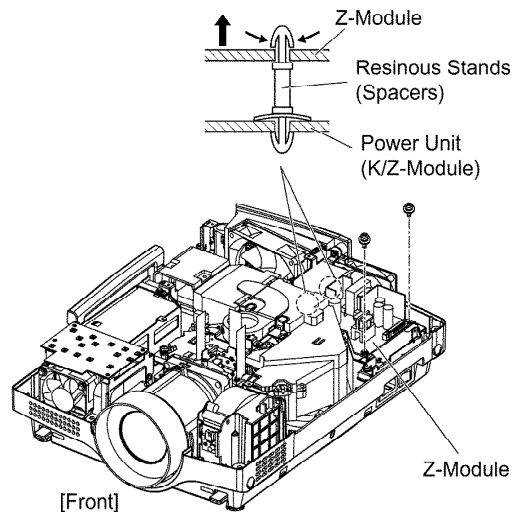
8. While pressing to shut each hook of the 4 resinous stands (spacers), remove the P/Q-Module.



7.8. Removal of Z-Module

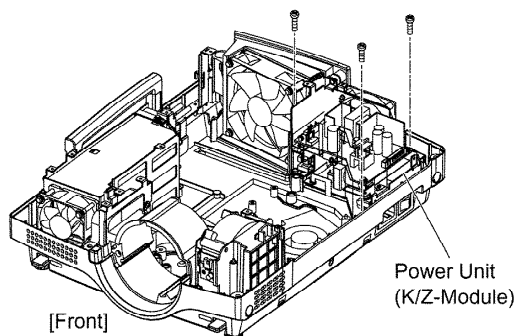
- 1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 7.6. "Removal of A-P.C.Board".**
- 2. Disconnect the 2 connectors from/to the Z-Module.**

3. Remove the 2 screws.
4. While pressing to shut each hook of the 2 resinous stands (spacers), remove the Z-Module.

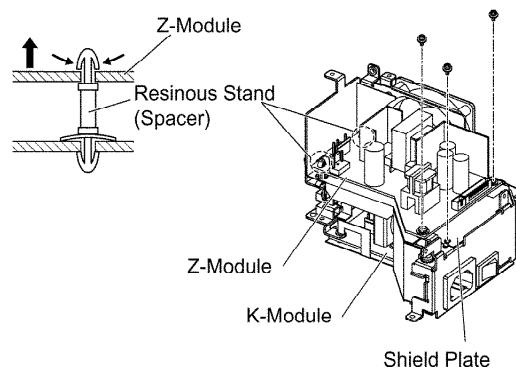


7.9. Removal of K-Module

1. Remove the analysis block according to the steps 1 through 8 in the section 7.10. "Removal of Analysis Block".
2. Unscrew the 3 screws and disconnect the 2 connectors, then take the power unit (K/Z-Module) out.



3. Removing Z-Module
 - A. Unscrew the 2 screws.
 - B. While pressing to shut each hook of the 2 resinous stands (spacers), remove the Z-Module.
4. Unscrew the 1 screw fixing the shield plate.

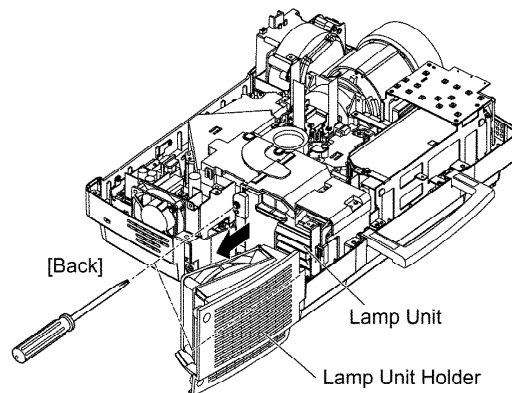


Note:

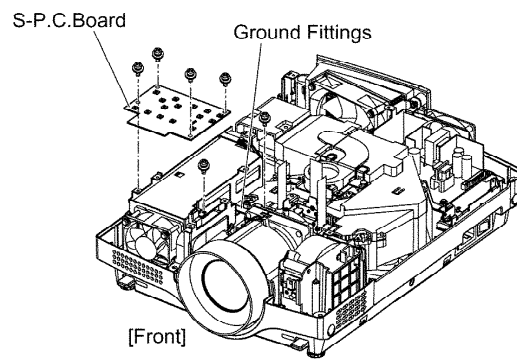
- Under this condition, the repair and the parts replacement of the K-Module are possible.

7.10. Removal of Analysis Block

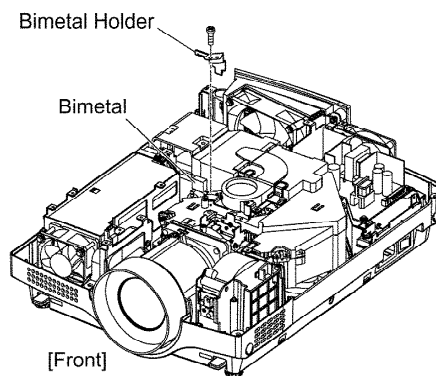
1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 7.6. "Removal of A-P.C.Board".
2. Loosen the 2 screws until they idle and remove the lamp unit.



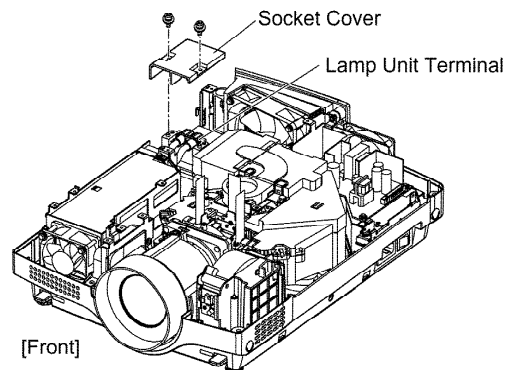
3. Unscrew the 4 screws and remove the S-P.C.Board.
4. Unscrew the 2 screws and remove the ground fittings.



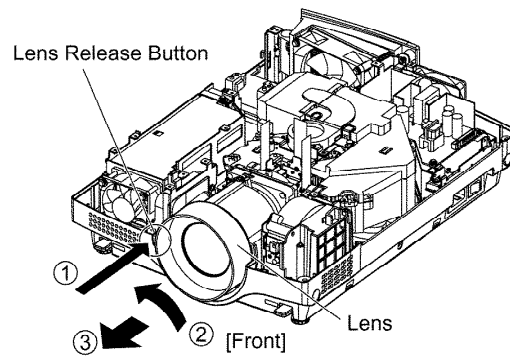
5. Unscrew the 1 screw and remove the bimetal holder.



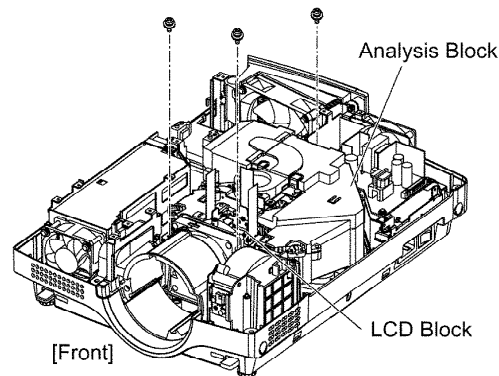
6. Unscrew the 2 screws and remove the socket cover, then remove the lamp unit terminal.



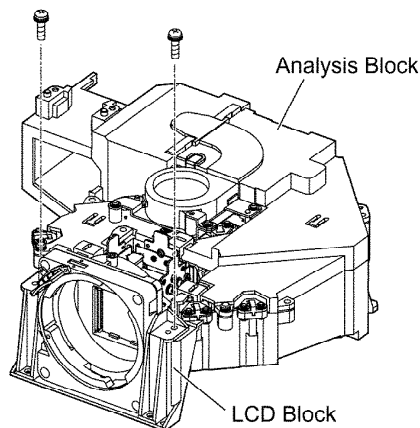
7. While pressing the lens release button, fully turn counterclockwise the lens and pull it out.



8. Unscrew the 3 screws and take the analysis and LCD blocks out.

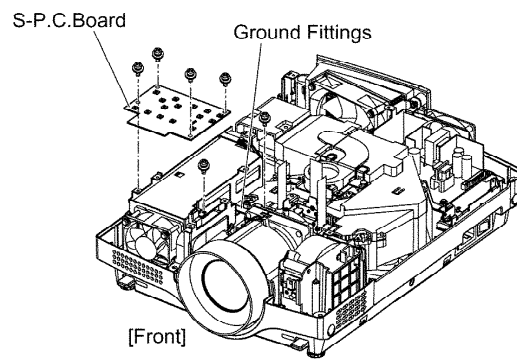


9. Unscrew the 2 screws and remove the LCD block.

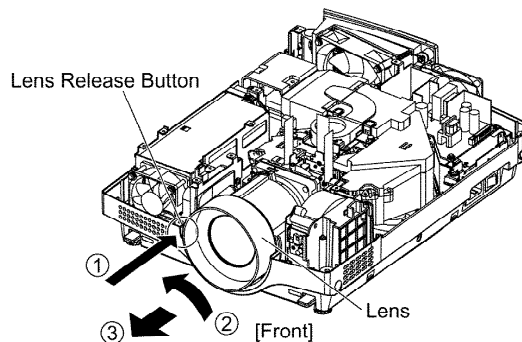


7.11. Removal of LCD Block

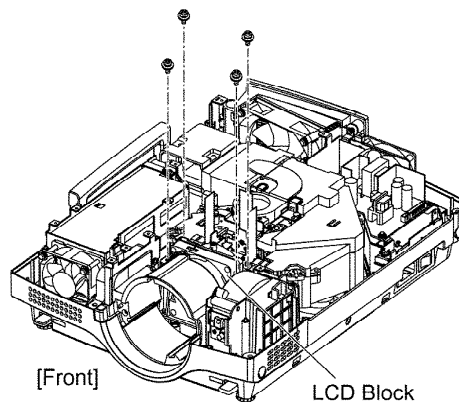
- 1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 7.6. "Removal of A-P.C.Board".**
- 2. Unscrew the 4 screws and remove the S-P.C.Board.**
- 3. Unscrew the 2 screws and remove the ground fittings.**



4. While pressing the lens release button, fully turn counterclockwise the lens and pull it out.



5. Unscrew the 4 screws and remove the LCD block.



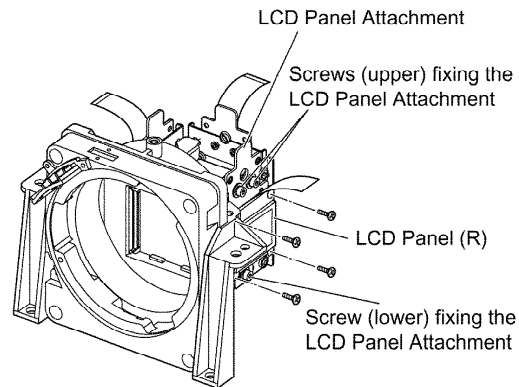
7.12. Replacement of LCD Panel

1. Remove the LCD block according to the section 7.11. "Removal of LCD Block".
2. Unscrew the 4 screws and replace the LCD panel. (Remove the old LCD panel and install a new one.)

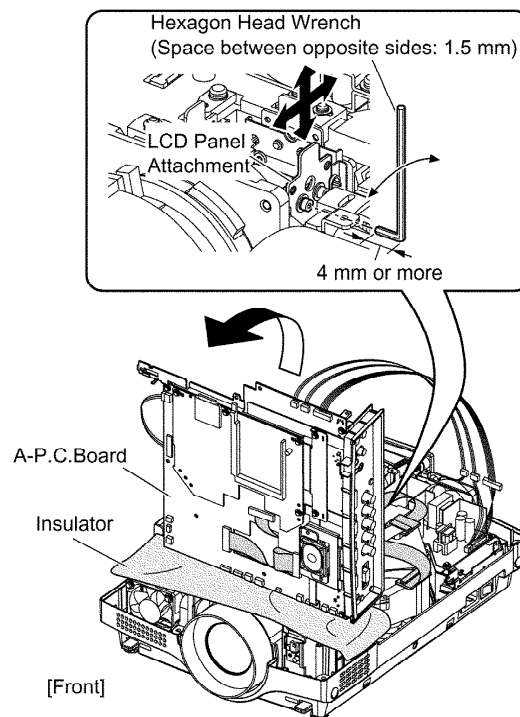
Note:

- Be careful not to touch the LCD panel surface.

3. Use a hexagon head wrench, loosen the 3 screws fixing the LCD panel attachment and screw them temporarily just until the LCD panel attachment can be shifted by your fingers.



4. Reassemble the projector to the following in the reverse order of disassembling.
 - The upper case and the screws fixing the A-P.C.Board block were removed
5. Adjust the convergence according to the section 8.4. "Convergence Adjustment".
6. After the adjustment, screw the 2 screws (upper) fixing the LCD panel attachment temporarily with care not to vary the adjusting result.



Notes:

- Work carefully not to damage the flexible cable.
- Prepare a hexagon head wrench as shown in the above figure.

7. Remove the LCD block again.

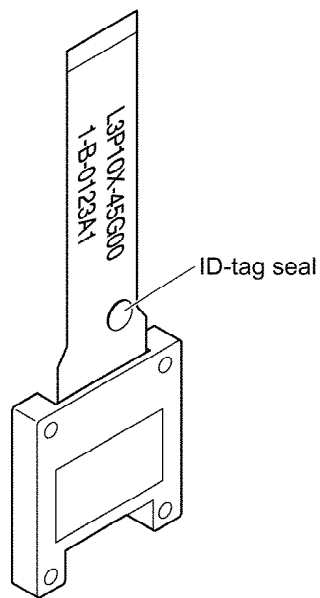
8. Tighten the 3 screws fixing the LCD panel attachment.

9. Reassemble the projector as it was.

7.13. LCD Panel Discrimination

ID-tag seal color	LCD panel
Red	LCD panel (R)
Blue	LCD panel (B)
(No seal)	LCD panel (G)

- Since the ID-tag seal is pasted to the FPC of LCD Panel, (R), (G) or (B) can be easily identified by the color of the seal.
- Finally, identify the panel color by the part number printed on the FPC.



7.14. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.
- When replacing LCD Panel, use a component which has the same part number as the original.

PT-L780NT*

LCD panel	Combination 1	Combination 2
R	L5BDAXQ00101 / (L3P10X-45G00)	L5BDAXQ00104 / (L5P10X-46G00)
G	L5BDAXQ00105 / (L3P10X-45G00)	L5BDAXQ00102 / (L5P10X-46G00)
B	L5BDAXQ00103 / (L3P10X-45G00)	L5BDAXQ00106 / (L5P10X-46G00)

PT-L750*

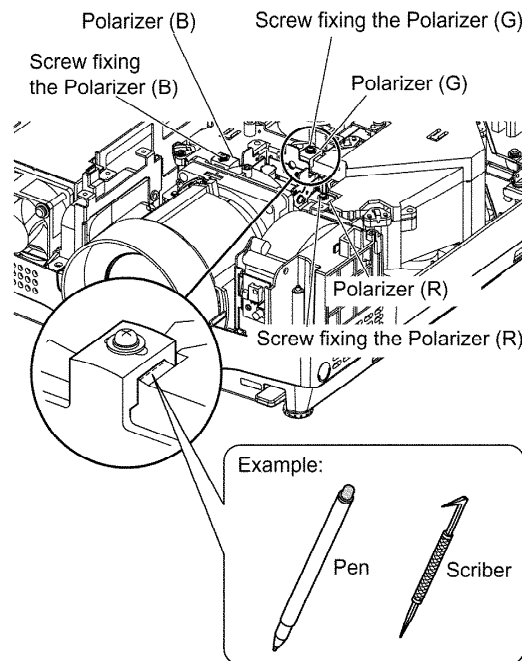
LCD panel	Combination 1	Combination 2
R	L5BDAXQ00107 / (L3P10X-41G00)	L5BDAXQ00110 / (L3P10X-42G00)
G	L5BDAXQ00111 / (L3P10X-41G00)	L5BDAXQ00108 / (L3P10X-42G00)
B	L5BDAXQ00109 / (L3P10X-41G00)	L5BDAXQ00112 / (L3P10X-42G00)

7.15. Replacement of Polarizer

1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 7.6. "Removal of A-P.C.Board".
2. Mark positions of the polarizer (R/G/B).

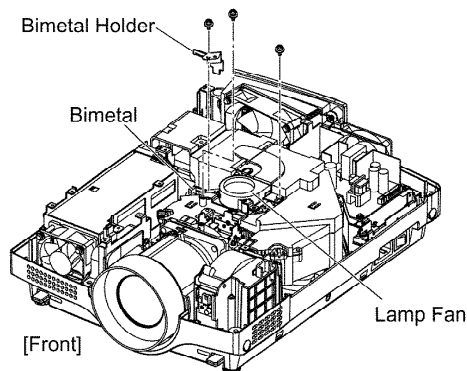
Note:

 - Mark accurately as possible because the marks will be used for resetting the polarizer position.
3. Unscrew each screw fixing the polarizer and remove the polarizer.
4. Attach a new polarizer and align it with the mark.
5. Tighten the screw fixing the polarizer with care not to move its position.



7.16. Replacement of PBS Array (Analysis Block)

1. Take the A-P.C.Board block out according to the steps 1 through 6 in the section 7.6. "Removal of A-P.C.Board".
2. Unscrew the 1 screw and remove the bimetal holder.
3. Unscrew the 2 screws and remove the lamp fan.

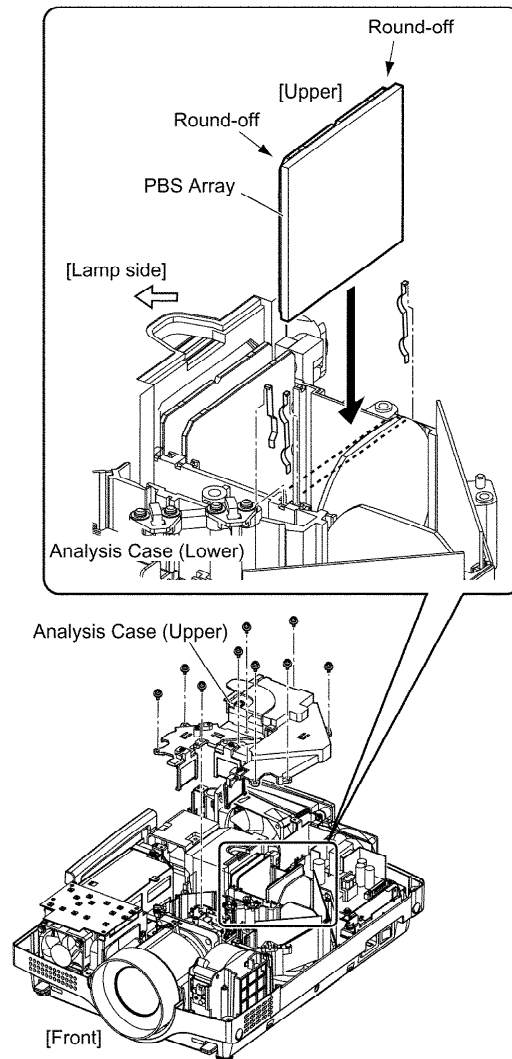


4. Unscrew the 9 screws and remove the analysis case (upper).

Notes:

- Polarizers (R/G/B) are attached on the analysis case (upper).
Handle with care not to apply external force to the polarizers.
- Do not touch optical components (lens, mirror, etc.) of the analysis block. If dirt or aberration has brought into existence, efficiency of the projector may deteriorate.

5. Take the PBS array out upward with its edges, then replace it.

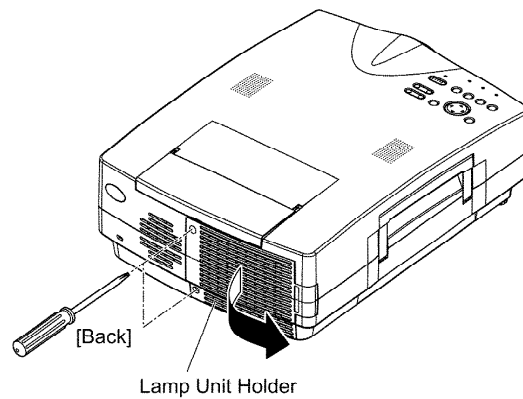


Notes:

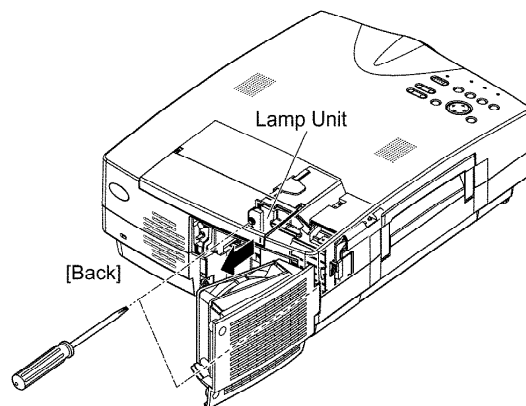
- When attaching a new PBS array, be careful not to mistake the direction.
- Work with care not to touch the surface of PBS Array. If not, efficiency of the projector may deteriorate.

7.17. Removal of lamp Unit

1. Loosen the 2 screws until they idle, open the lamp unit holder.

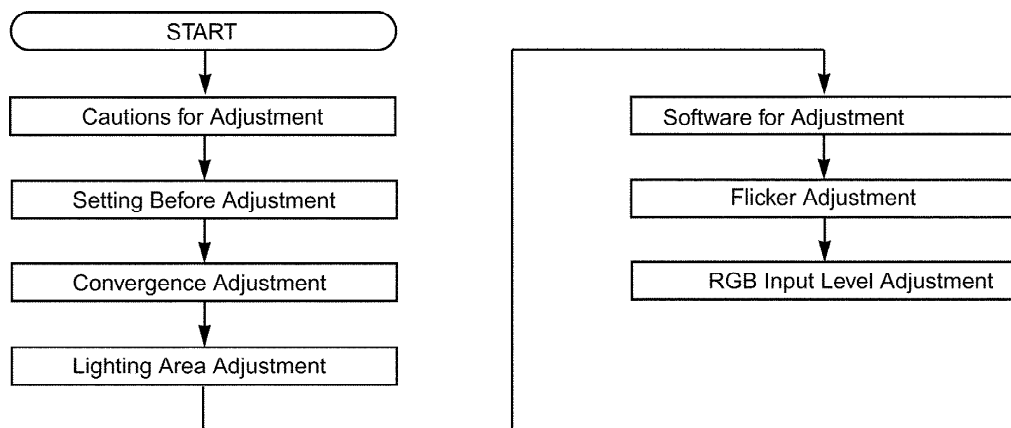


2. Loosen the 2 screws until they idle and remove the lamp unit.



8. Measurement and Adjustments

8.1. Adjustment Procedure Flowchart



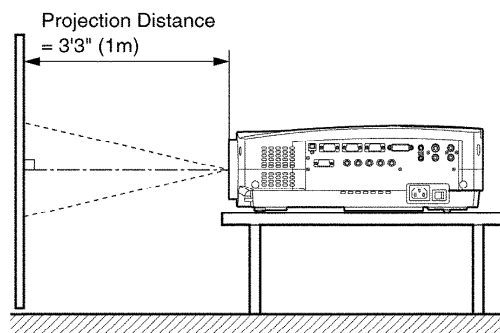
8.2. Cautions for Adjustment

- Never turn off the MAIN POWER switch until every fan completely stops.
- To maintain and ensure safety, always use the designated components for replacement parts.

- If removing any clamps, lead wires or connectors, always place them back in their proper locations.
- Be careful not to damage the lead wires or components when using a soldering iron or similar tool.

8.3. Setting Before Adjustment

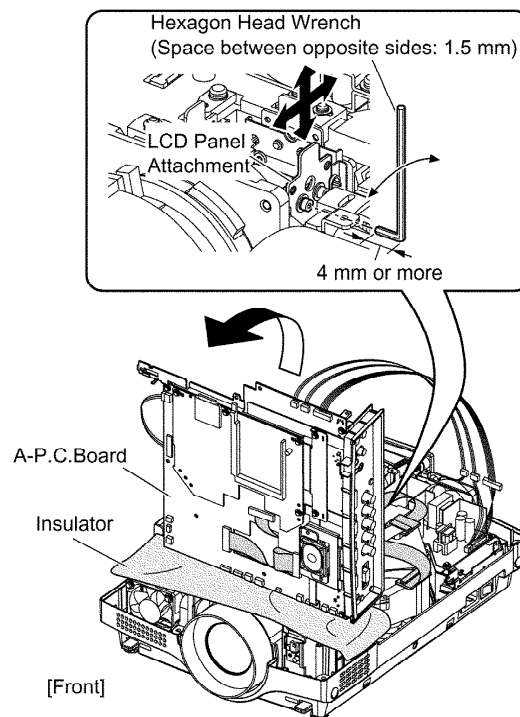
- Set up the projector to obtain the projection distance below.
- Turn the zoom ring of the projector to obtain the largest size of the picture.



8.4. Convergence Adjustment

8.4.1. Basic Adjustment Procedure

1. According to the section 7.12. "Replacement of LCD Panel", loosen the 3 screws fixing the LCD panel attachment and screw them temporarily just until the LCD panel can be shifted by your fingers.



2. Reassemble the projector to the following in the reverse order of disassembling.

- The upper case and the screws fixing the A-P.C.Board block were removed.

3. Connect the connectors from/to the A-P.C.Board.

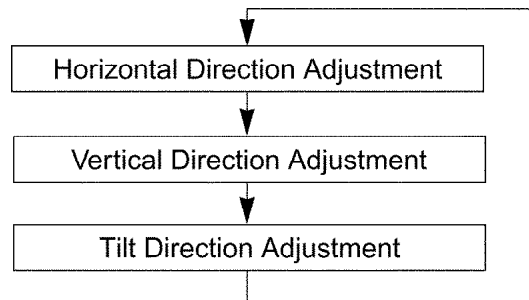
Note:

Use the service kit (see 8.5.1) for connections below.

- Each flexible cable of LCD panels (R/G/B) - Connectors (A1/A2/A3) on A-P.C.Board.
- Connectors (Z3/Z4) on Z-Module - Connectors (A5/A6) on A-P.C.Board.
- Connector of Exhaust Fan1 - Connector (A18) on A-P.C.Board.
- Connector of Exhaust Fan2 - Connector (A19) on A-P.C.Board.

4. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board on the main unit.

5. Repeat the following steps until the red, green and blue crosshatch patterns merge into a white pattern.



Note:

Because the projected picture may move opposite in direction to the move of the LCD panel, adjust the convergence observing the real projected picture carefully.

6. Reassemble the projector according to the steps 6 through 9 in the section 7.12. "Replacement of LCD Panel".

8.4.2. Adjustment after Every LCD Panel or LCD Block Replacement

1. Display the green crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (G) position to place the center position of the crosshatch pattern to the center on the screen.
3. Correct the tilt of the green crosshatch pattern.
4. Display the white crosshatch pattern.
5. Adjust the LCD panels (R) and (B) to merge the red and blue patterns with the green.

8.4.3. Adjustment after LCD Panel (G) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (G) to merge the green pattern with the red and blue ones.

8.4.4. Adjustment after LCD Panel (R) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (R) to merge the green pattern with the green and blue ones.

8.4.5. Adjustment after LCD Panel (B) Replacement

1. Display the white crosshatch pattern and adjust the lens focus.
2. Adjust the LCD panel (B) to merge the green pattern with the

green and red ones.

8.5. Lighting Area Adjustment

8.5.1. Tools to be used

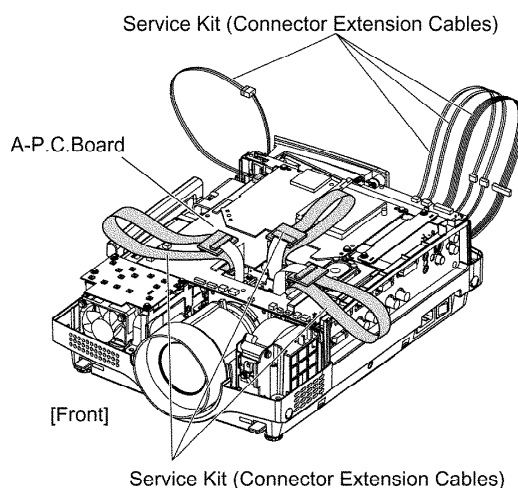
Service Kit (Part No. TZSH07009): This kit is composed of 3 extension flexible cables and 4 connector extension cable.

Note:

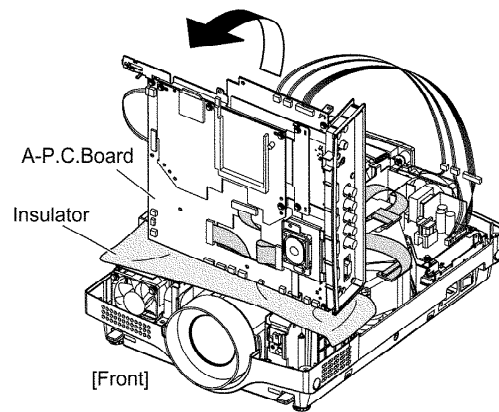
- **Consult your dealer or Authorized Service Center for the service kit.**

8.5.2. Preparation

1. **Unscrew the 5 screws fixing the A-P.C.Board block according to the steps 1 through 4 in the section 7.6. "Removal of A-P.C.Board".**
2. **Connect the service kit (extension cables).**
 - Each flexible cable of LCD Panels (R/G/B) - Connectors (A1/A2 /A3) on A-P.C.Board.
 - Connectors (Z3/Z4) on Z-Module - Connectors (A5/A6) on A-P.C.Board.
 - Connector of Exhaust Fan1 - Connector (A18) on A-P.C.Board.
 - Connector of Exhaust Fan2 - Connector (A19) on A-P.C.Board.



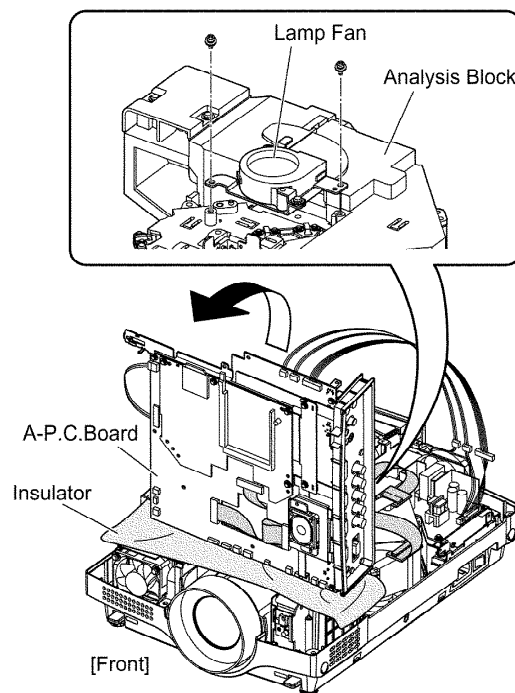
3. **Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board on the main unit.**



Note:

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.

4. Unscrew the 2 screws and remove the lamp fan.



8.5.3. Adjustment Procedure

8.5.3.1. Outline

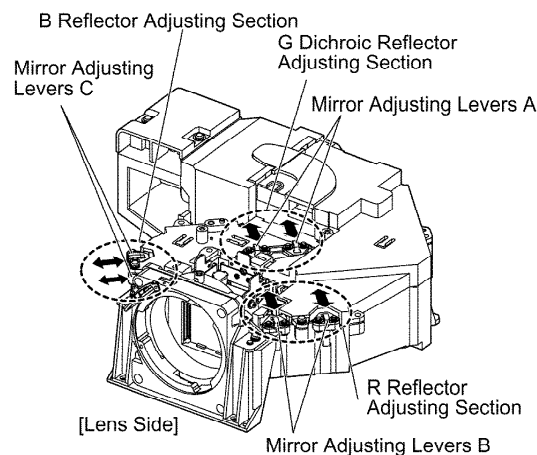
- Shifting two mirror adjusting levers in the same direction, adjust color unevenness on the screen upper/lower sides.
- Shifting two mirror adjusting levers in opposite directions, adjust color unevenness on the screen right/left sides.

Notes:

- Before adjustments, remove silicone bond which has locked the mirror adjusting levers.
- After adjustments, lock the mirror adjusting levers with silicone bond.

8.5.3.2. G Dichroic Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen each 2 screws fixing the 2 mirror adjusting levers A just until the lever can be shifted.
3. Adjust the mirror adjusting levers A positions to minimize color unevenness on the screen by shifting the levers in arrow directions.
4. Tighten each screw.



8.5.3.3. R Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen each 2 screw fixing the 2 mirror adjusting levers B just until the lever can be shifted.
3. Adjust the mirror adjusting levers B positions to minimize color unevenness on the screen by shifting the levers in arrow directions.
4. Tighten each screw.

8.5.3.4. B Reflector Adjustment

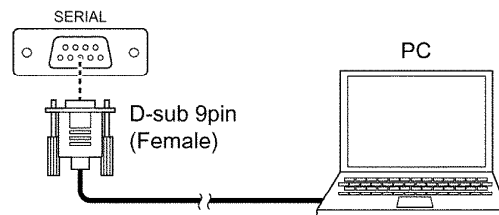
1. Turn on the power and display 100 % white pattern on the screen.

2. Loosen each 2 screw fixing the 2 mirror adjusting levers C just until the lever can be shifted.
3. Adjust the mirror adjusting levers C positions to minimize color unevenness on the screen by shifting the levers in arrow directions.
4. Tighten each screw.

8.6. Software for Adjustment

8.6.1. Outline

- This projector needs computer-aided adjustments.
- After the software adjustments, this projector must be turned off and on again to memorize the settings.
- Connect the cable between the projector and a PC as shown below.
- Updating the software will change the version number.



8.6.2. Operating Procedure

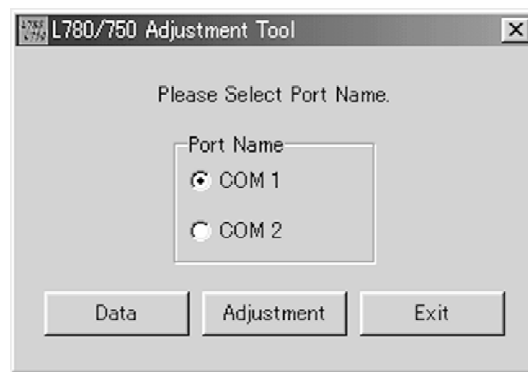
1. Run software program by the keyboard entry.

Note:

- Use the software program as below.
L780/750 Adjustment Tool

2. The first menu is [Port Name] selection menu.
3. Adjust the projector by selecting the necessary item from the menu in each stage.

8.6.3. Port Name and Projector Selection Menu



Select the port name with the radio button and click "Data" or "Adjustment".

8.6.3.1. Explanation of Buttons

COM 1:

Sets the port name of PC which connects with the projector is in COM1.

COM 2:

Sets the port name of PC which connects with the projector is in COM2.

Data:

Displays the data send/receive menu.

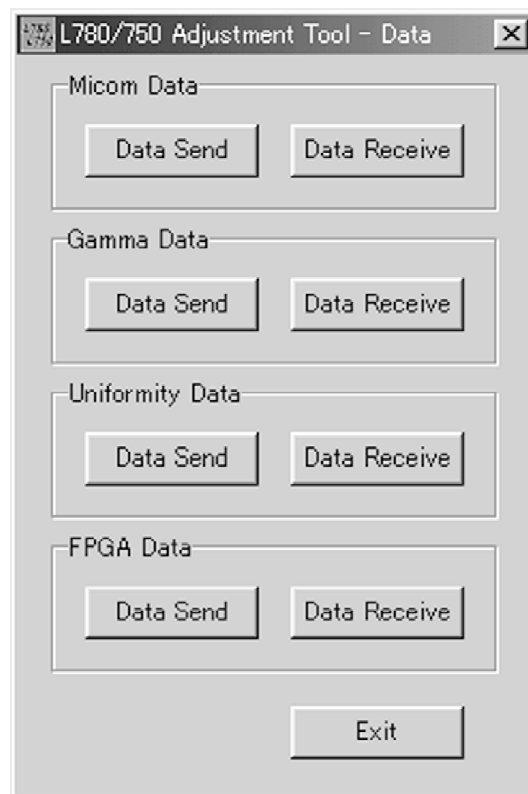
Adjustment:

Displays the adjustment menu.

Exit:

Exits this application.

8.6.4. Data Send/Receive Menu



8.6.4.1. Explanation of Buttons

Micom Data Send:

Reads the microcomputer data from the file and sends it to the projector.

Micom Data Receive:

Receives the microcomputer data from the projector and writes it in the file.

Gamma Data Send:

Reads the gamma data from the file and sends it to the projector.

Gamma Data Receive:

Receives the gamma data from the projector and writes it in the file.

Uniformity Data Send:

Reads the color unevenness correction data from the file and sends it to the projector.

Uniformity Data Receive:

Receives the color unevenness correction data from the projector and writes it in the file.

FPGA Data Send:

Reads the FPGA data from the file and sends it to the projector.

FPGA Data Receive:

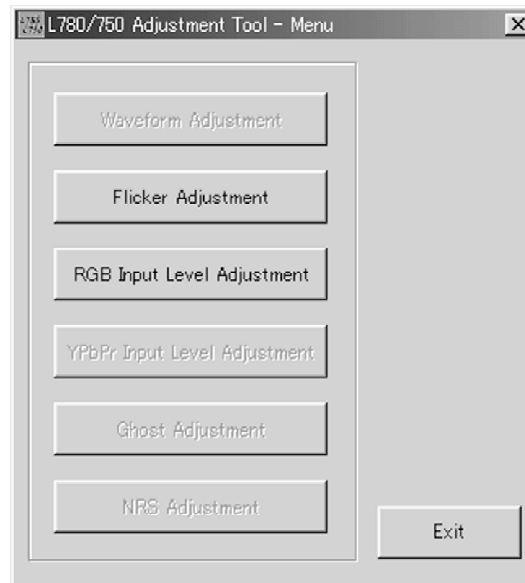
Receives the FPGA data from the projector and writes it in the file.

Exit:

Exits this application.

8.6.4.2. Receiving and sending of the data

Click a target button and specify a file name.

8.6.5. Adjustment Menu**8.6.5.1. Explanation of Buttons****Flicker Adjustment:**

Displays the flicker adjustment menu.

RGB Input Level Adjustment:

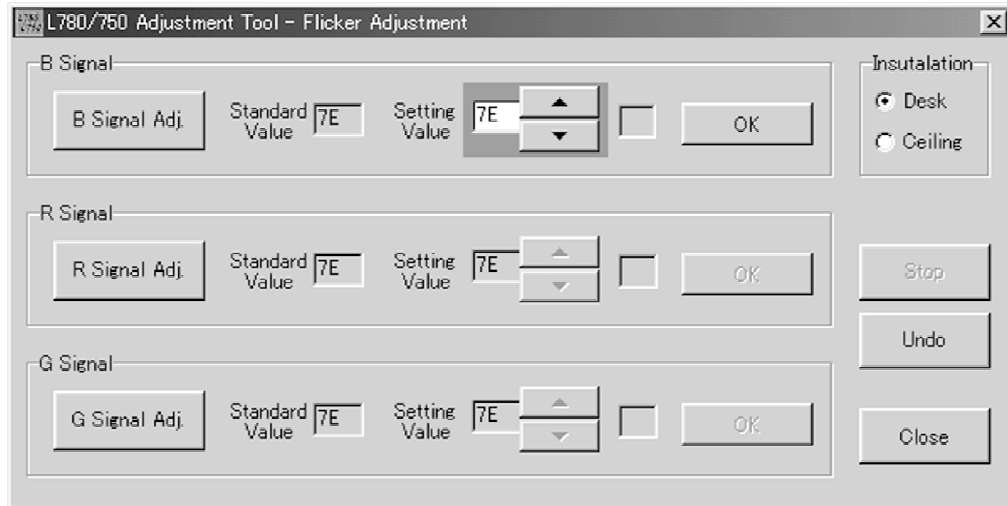
Displays the RGB input level adjustment menu.

Exit:

Exits this application.

8.7. Flicker Adjustment

8.7.1. Adjustment Menu



8.7.2. Explanation of Buttons

Desk:

Sets the installation mode to the desk setting and receive the current data.

Ceiling:

Sets the installation mode to the ceiling setting and receive the current data.

B Signal Adj.:

Sets the test signal mode to the B-signal and allows the "▲", "▼" and "OK" buttons of the B-signal to become active.

R Signal Adj.:

Sets the test signal mode to the R-signal and allows the "▲", "▼" and "OK" buttons of the R-signal to become active.

G Signal Adj.:

Sets the test signal mode to the G-signal and allows the "▲", "▼" and "OK" buttons of the G-signal to become active.



Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is

transmitted once. The variable setting value is enclosed in a box and using the TAB or SPACE key allows the move of the box.

OK:

Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER key changes the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8 or 2 key, its color returns to black.

Stop:

Discontinues the communication. (This button is usually set for its inactive mode.)

Undo:

Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

Close:

Closes this menu.

8.7.3. Equipment to be used

PC, Software for Adjustment

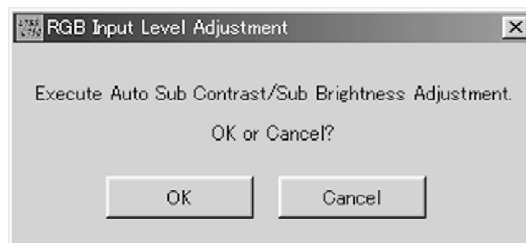
8.7.4. Adjustment Procedure

- 1. Display the flicker adjustment menu.**
- 2. Set the installation mode to the desk setting.**
- 3. Click "B Signal Adj." and the blue flicker adjustment pattern will be displayed.**
- 4. Minimize the flicker while observing the projected pattern.**
- 5. Click "R Signal Adj." and the red flicker adjustment pattern will be displayed.**
- 6. Minimize the flicker while observing the projected pattern.**
- 7. Click "G Signal Adj." and the green flicker adjustment pattern will be displayed.**
- 8. Minimize the flicker while observing the projected pattern.**
- 9. Change the installation mode to the ceiling setting and follow**

steps 3 to 8 inclusive.

8.8. RGB Input Level Adjustment

8.8.1. Adjustment Menu



8.8.2. Explanation of Buttons

OK:

Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:

Cancels this menu.

8.8.3. Equipment to be used

PC, RGB Signal Generator, Software for Adjustment

8.8.4. Adjustment Procedure

- 1. Display the RGB input level adjustment menu.**
- 2. Input a window pattern signal to RGB1 IN connector.**

Note:

- Use approx. 15 % window pattern as follows.**
 - Black background (screen width) : White window width = 2 : 1**
 - Black background (screen height) : White window height = 3 : 1**
- Use the window pattern of XGA (1 024×768).**

- 3. Click the OK button.**

9. Troubleshooting

9.1. troubleshooting

The letters in the left of the inspection items indicate the P.C.Boards or Modules related to their respective descriptions.

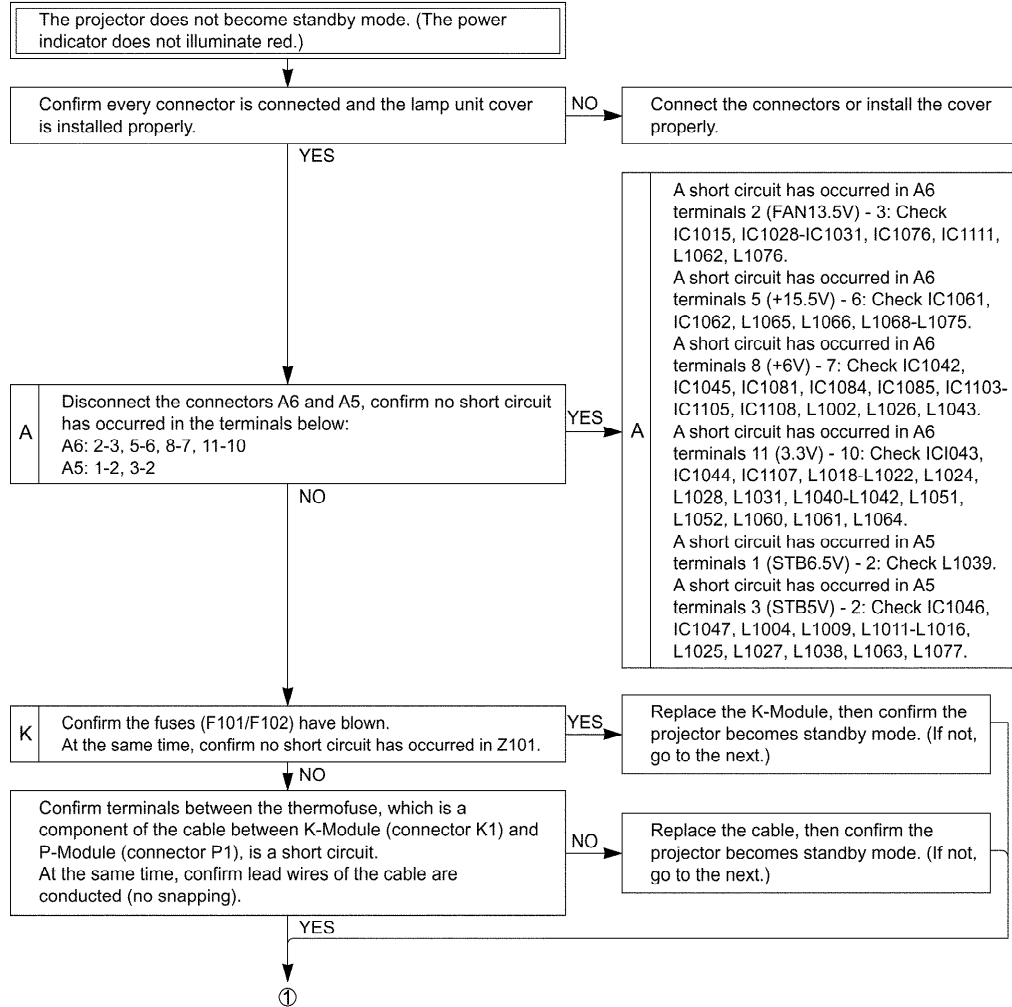
Note: A

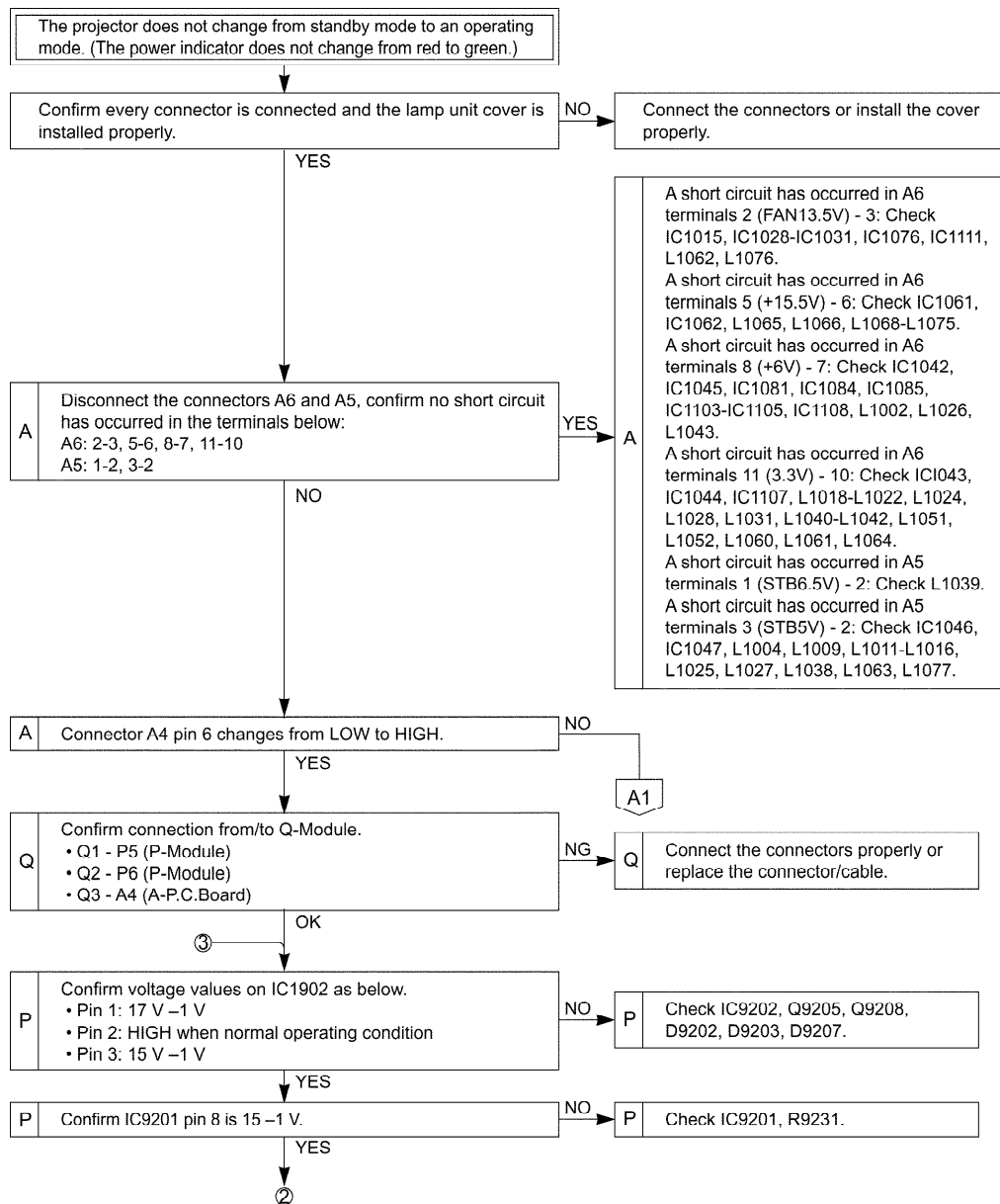
The letter of the alphabet indicates the P.C.Board or Module name.

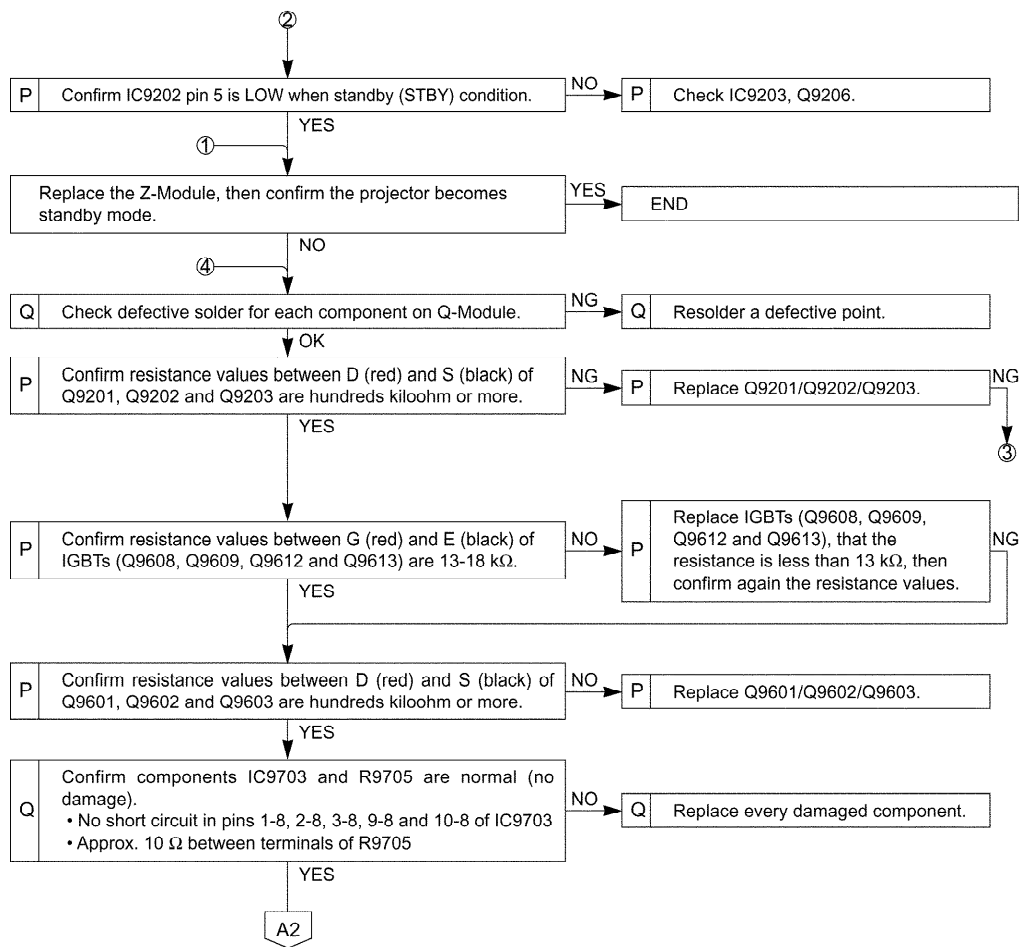
(Example) A: A-P.C.Board, K: K-Module

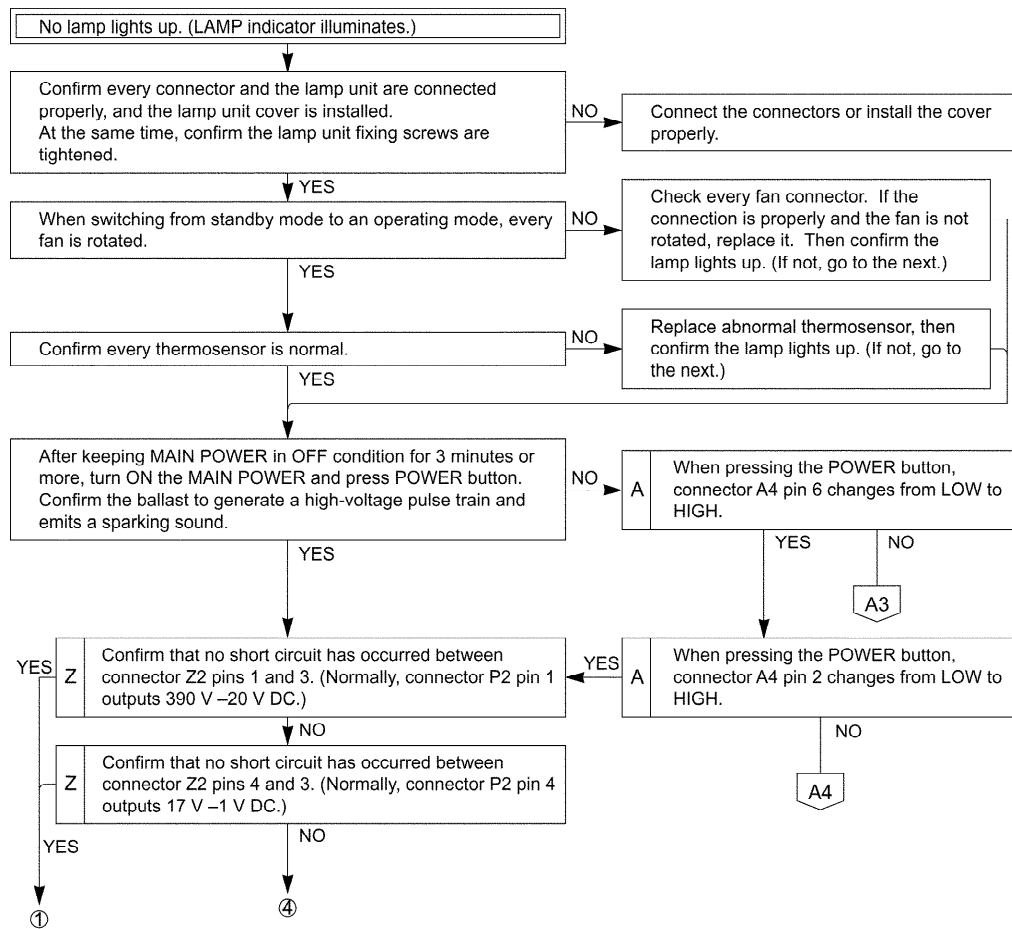
If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 8.6. "Software for Adjustment". At this time, if the readout from the old P.C.Board does not succeed, remove IC1011 and IC1017 from the old P.C.Board and install them on the new one.

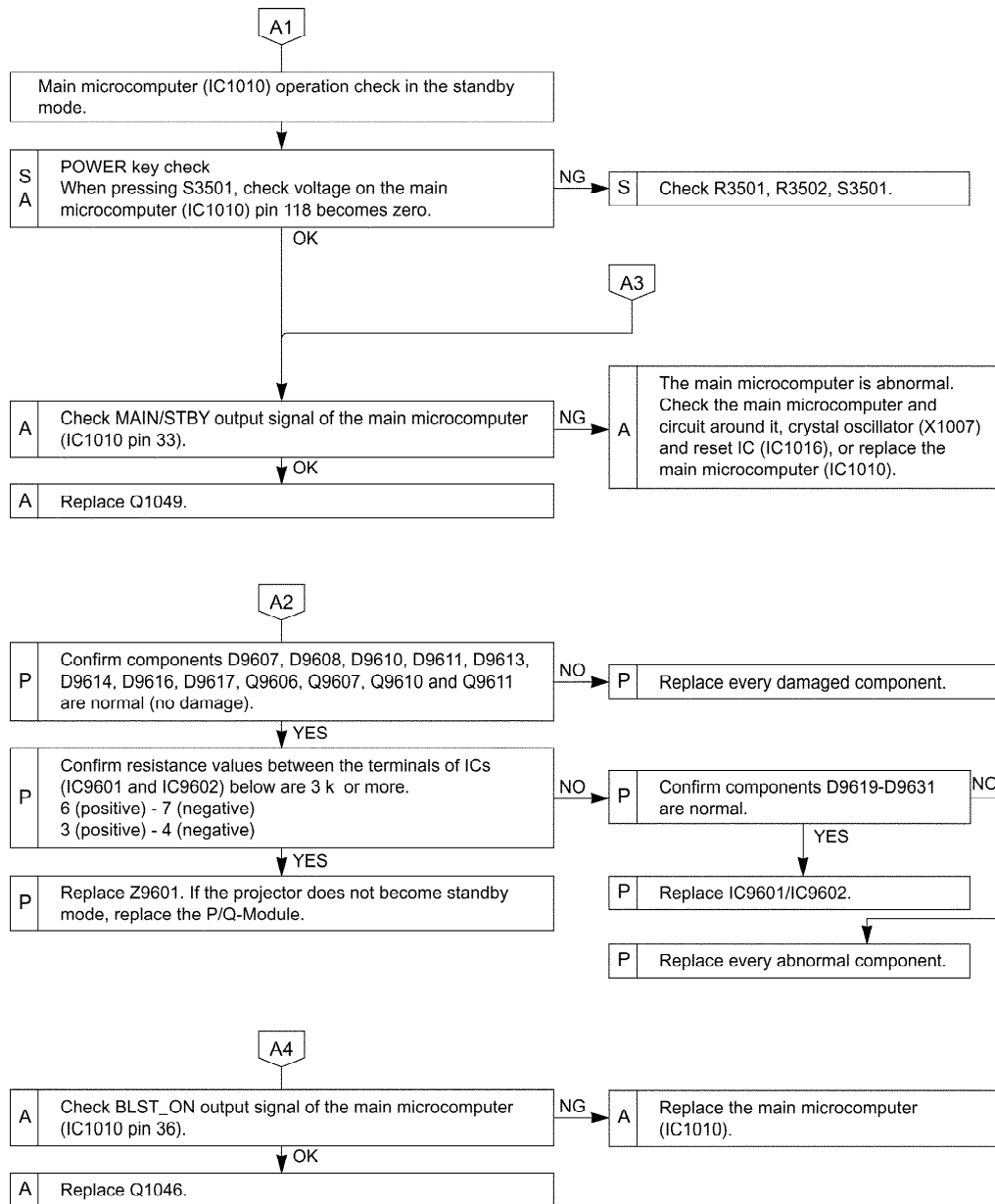
If replacing A-P.C.Board (assembly), adjust RGB Input Level according to the chapter 8.8. "RGB Input Level Adjustment".

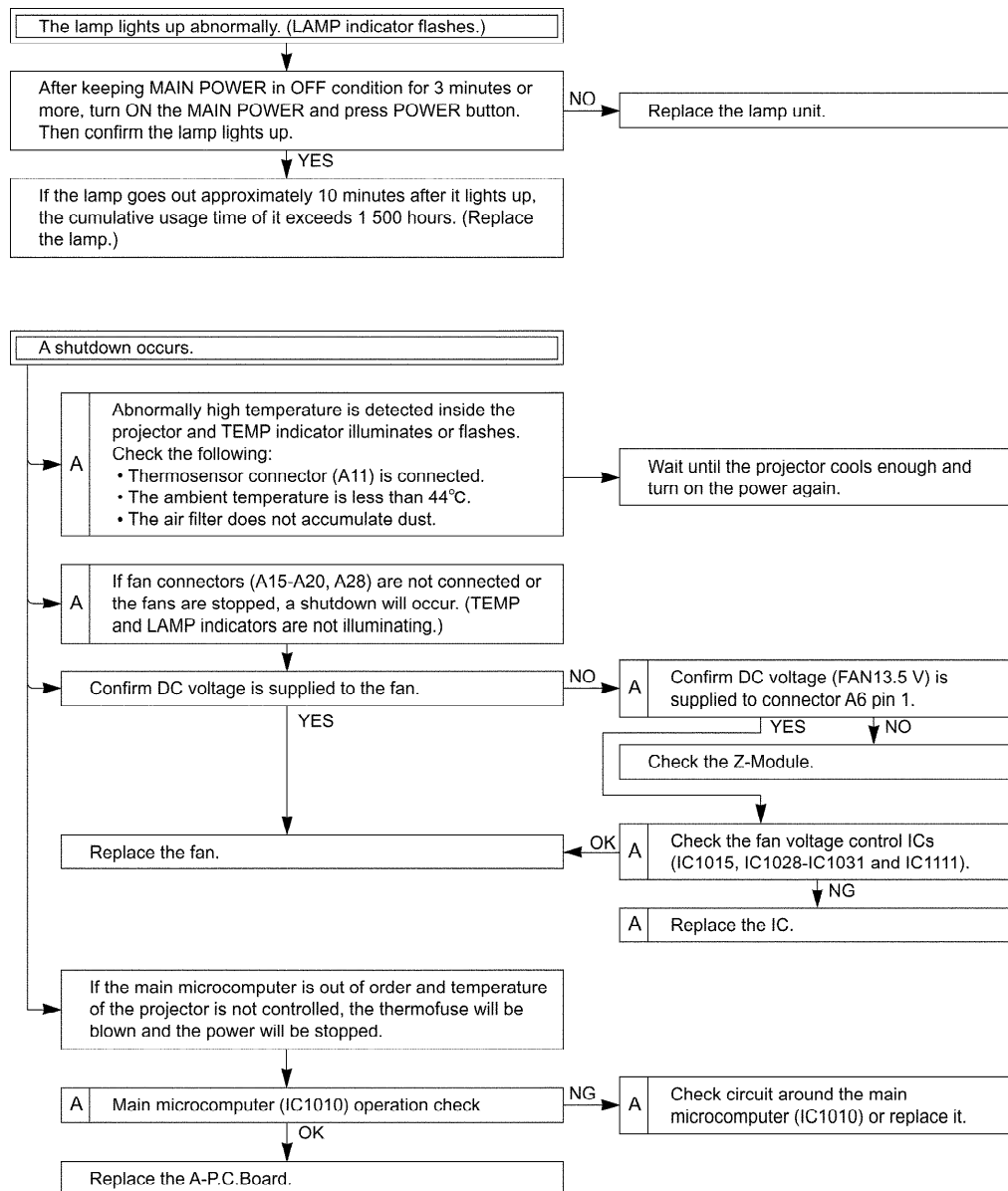


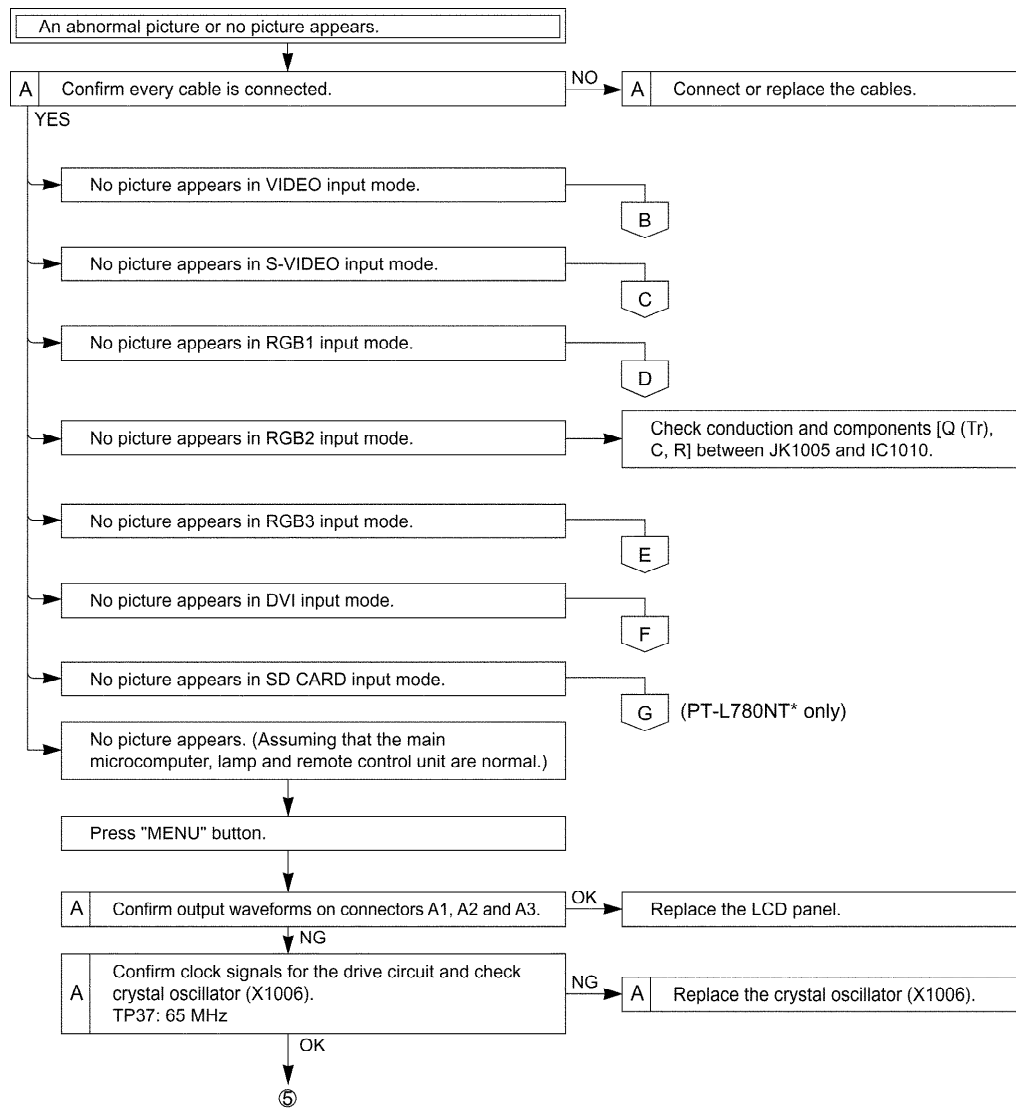


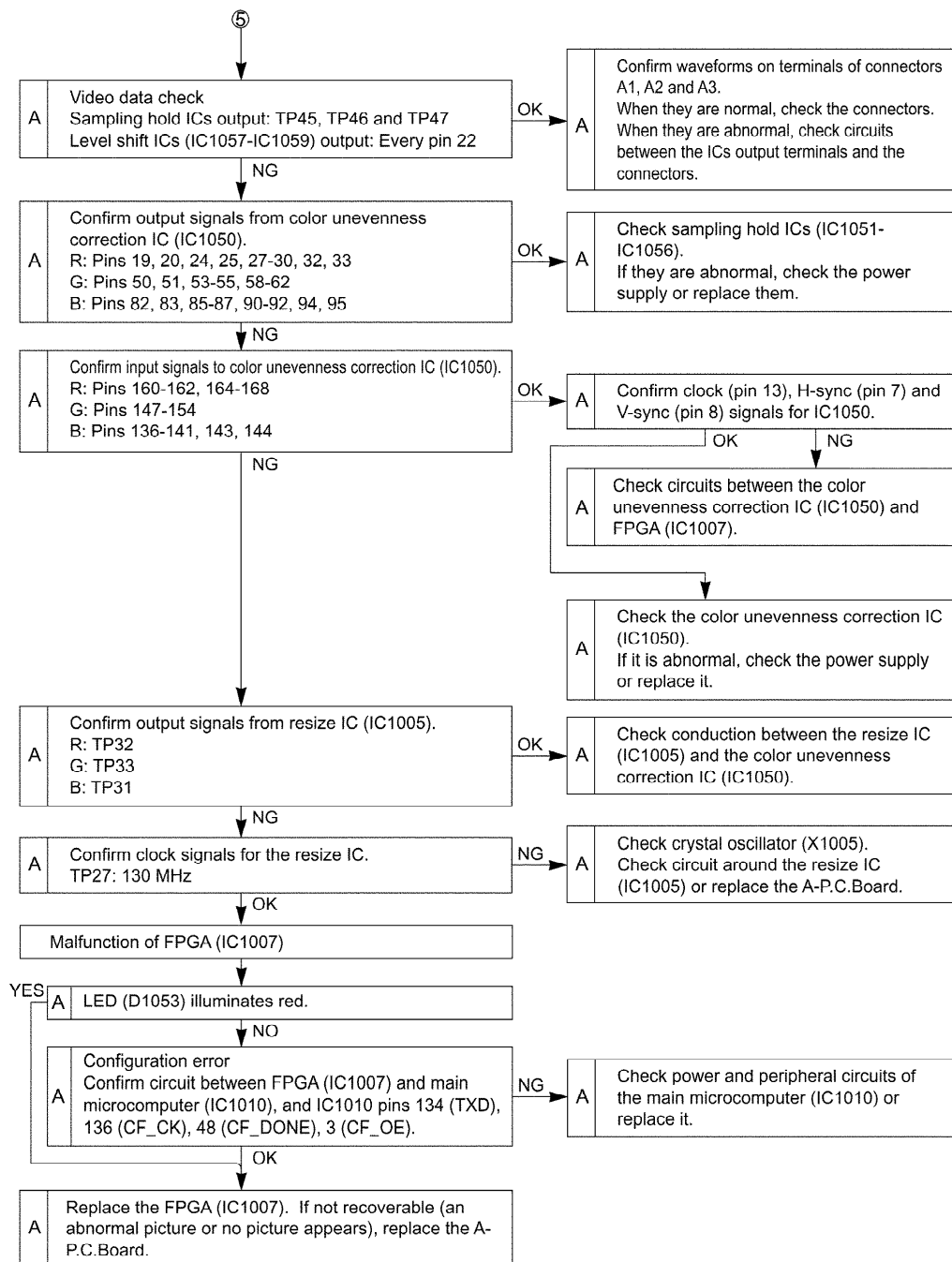


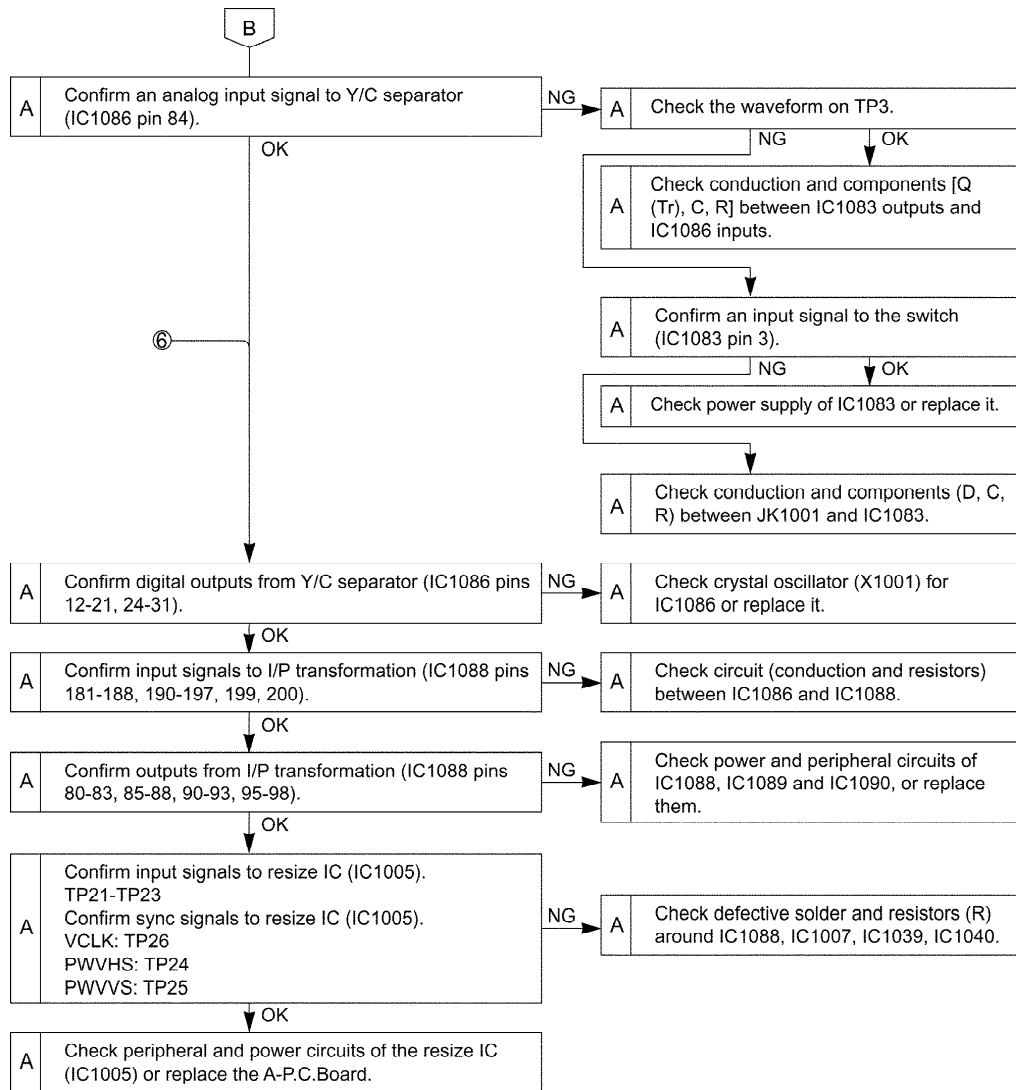


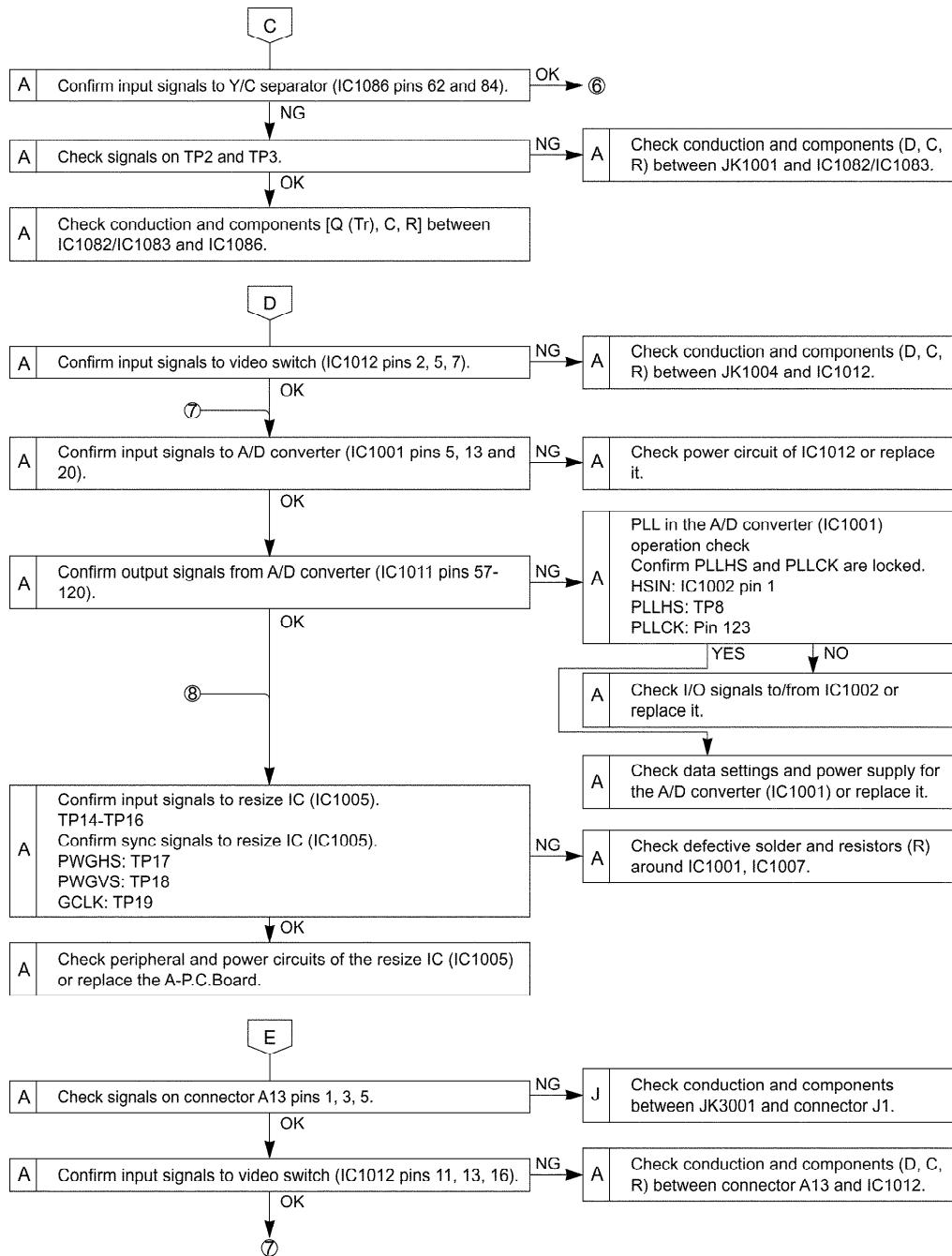


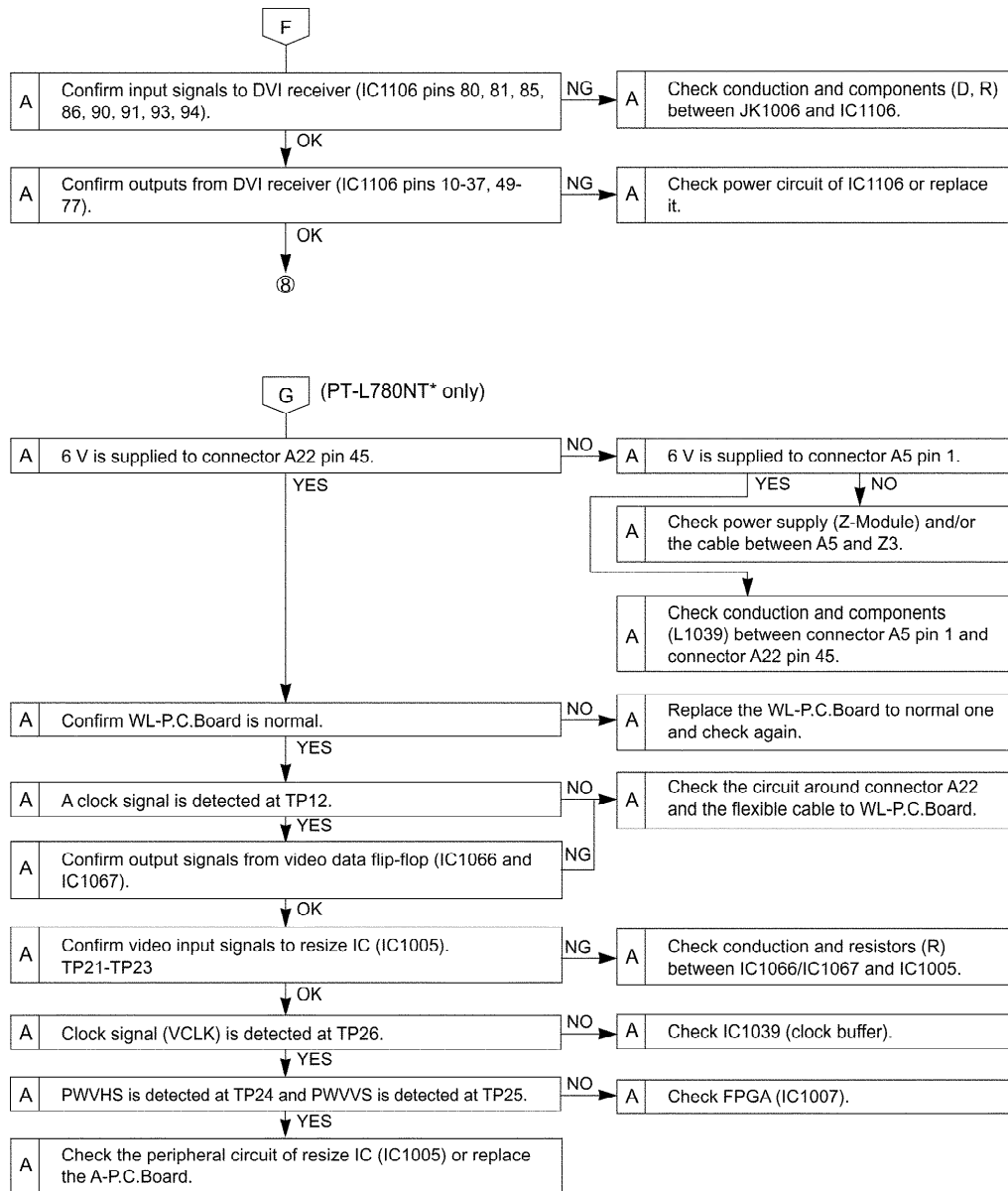


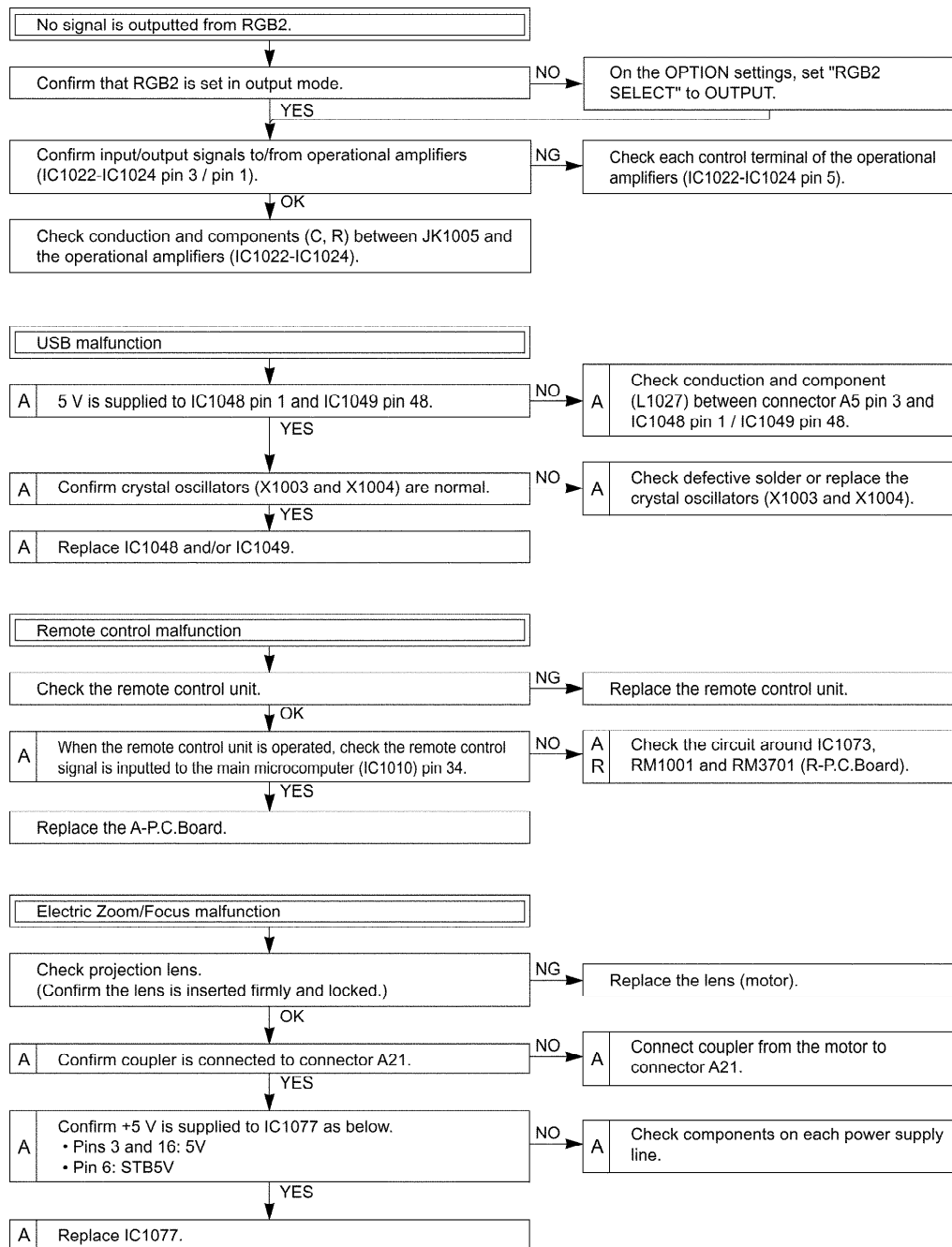


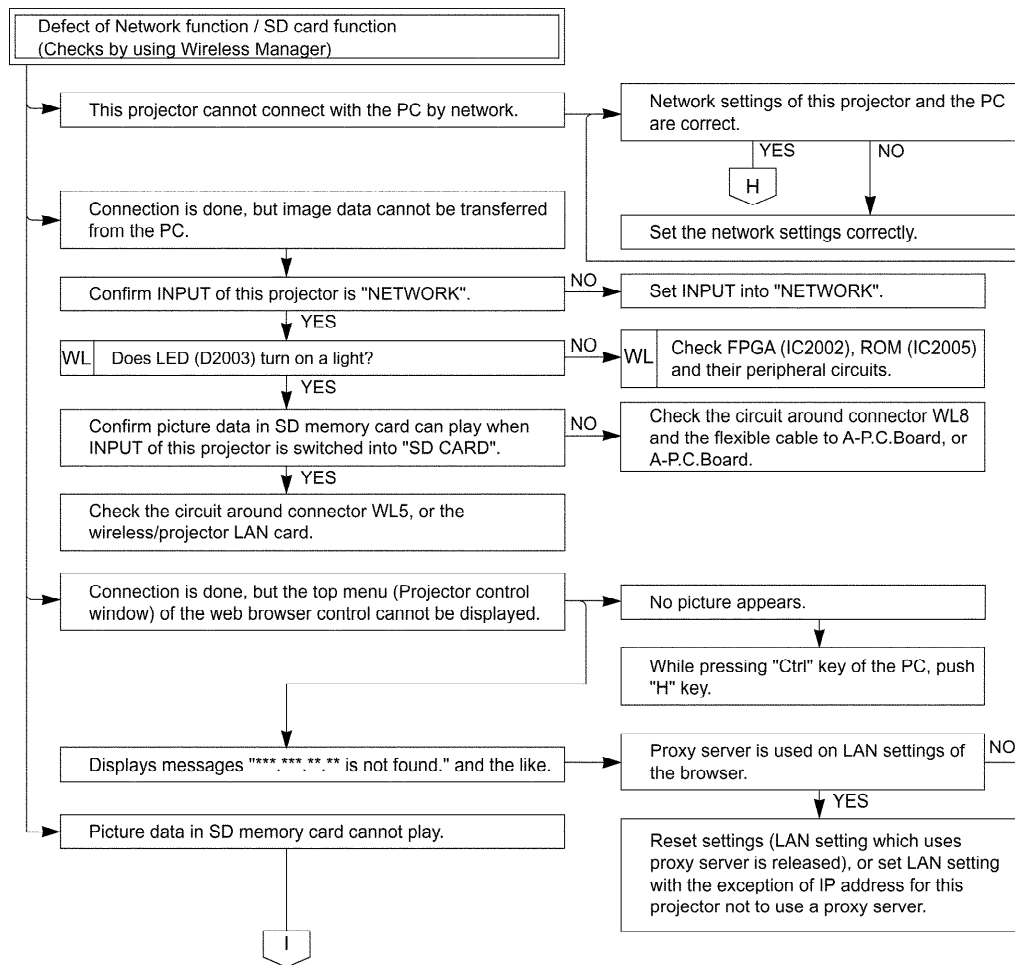


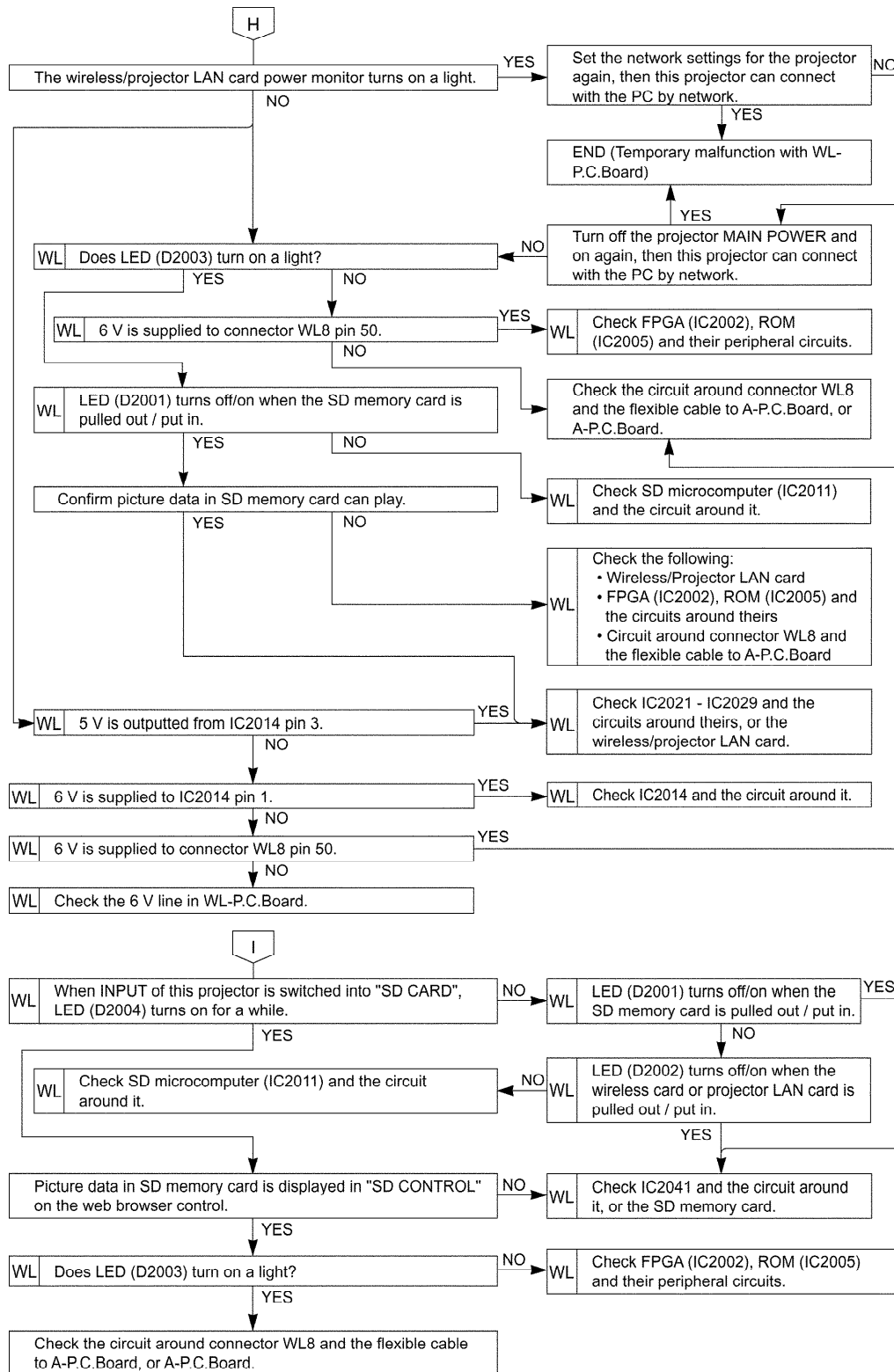












9.2. Monitor LEDs on the WL-P.C.Board (PT-L780NT* only)

- D2001 (SD monitor): Turning ON when SD memory card is put in
If not, check IC2011 (SD microcomputer) and the circuit around it.
- D2002 (LAN monitor): Turning ON when Wireless card or Projector

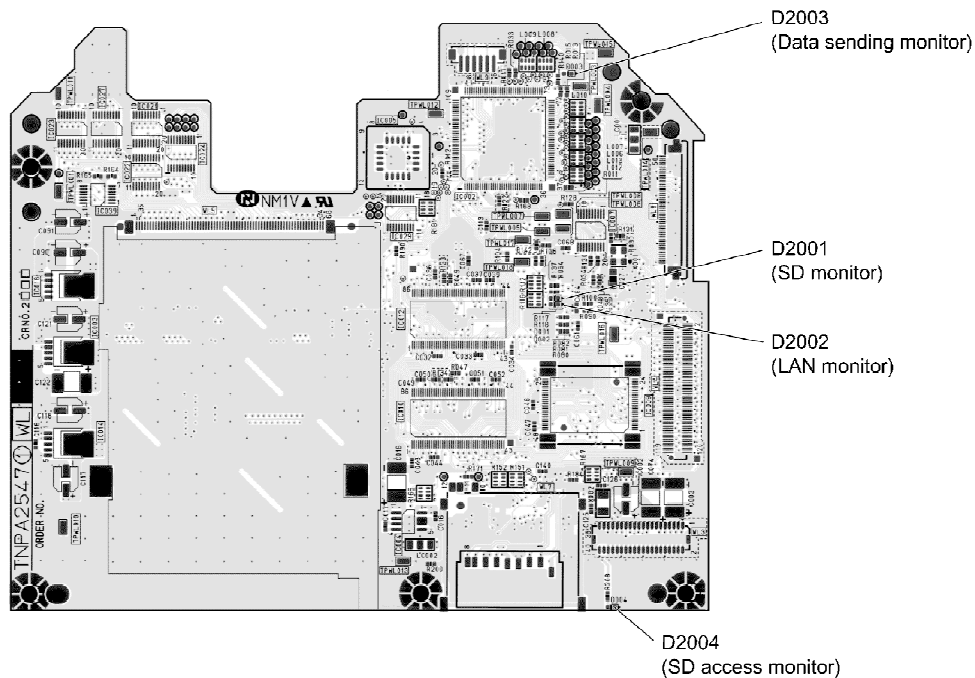
LAN card is put in

If not, check IC2011 (SD microcomputer) and the circuit around it.

- D2003 (Data sending monitor): Normally ON

If it is OFF, check connection between connectors WL8 and A22.

- D2004 (SD access monitor): Turning ON during accessing the SD memory card or rewriting the microprocessor



10. Interconnection Block Diagram

10.1. Interconnection Block Diagram (1/2)

10.2. Interconnection Block Diagram (2/2)

11. Block Diagram

11.1. Power Supply

11.2. Signal Processing (1/3)


11.3. Signal Processing (2/3)

11.4. Signal Processing (3/3)

12. Schematic Diagram

Schematic Diagram for Models PT-L780NTE/L750E




















Important Safety Notice

Components identified by the international symbol  have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified ones.

Schematic Diagram for Models PT-L780NTU/L750U

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

- Notes:**
- 1. Resistor**
All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an OHM [Ω] (K=1 000 M=1 000 000).
- | | |
|--|---|
|  : Nonflammable |  : Metal Oxide |
|  : Solid |  : Metal Film |
|  : Wire Wound |  : Fuse |
- 2. Capacitor**
- | | |
|--|---|
|  : Temperature Compensation |  : Electrolytic |
|  : Polyester |  : Bipolar |
|  : Metalized Polyester |  : Dipped Tantalum |
|  : Polypropylene |  : Z-Type |
- 3. Coil**
The unit of inductance is a μH, unless otherwise noted.
- 4. Test Point**
 : Test Point
- 5. Voltage Measurement**
The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.
- 6. Color code for the links between diagrams and circuit boards**
- | From/To | | To/From | Color code |
|-------------------|---|-------------------|-------------------|
| Block diagram |  | Schematic diagram | Magenta |
| Schematic diagram |  | Schematic diagram | Green |
| Schematic diagram |  | Circuit boards | Yellow |
| Schematic diagram |  | Waveforms | Cyan (Light blue) |
- 7. HOT and COLD indications**
The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:
- 8. This schematic diagram is the latest at the time of printing and the subject to change without notice.**
- Precautions:**
- NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
 - NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
 - NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow. Connect the ground of instruments to the ground of the circuit being measured.
 - MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

12.1. A-P.C.Board (1/7)

12.2. A-P.C.Board (2/7)

12.3. A-P.C.Board (3/7)

12.4. A-P.C.Board (4/7)

12.5. A-P.C.Board (5/7)

12.6. A-P.C.Board (6/7)

12.7. A-P.C.Board (7/7)

12.8. WL-P.C.Board (1/3)

12.9. WL-P.C.Board (2/3)

12.10. WL-P.C.Board (3/3)

12.11. P-Module (1/2)

12.12. P-Module (2/2)

12.13. J-P.C.Board, S-P.C.Board

13. Circuit Boards

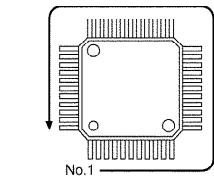
13.1. A-P.CBoard (Foil Side)

13.2. A-P.CBoard (Component Side)

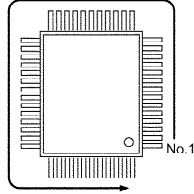
13.3. J-P.C.Board/S-P.C.Board

13.4. WL-P.CBoard (Foil Side/Component Side)

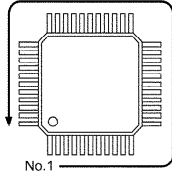
14. Terminal guide of ICs and transistors



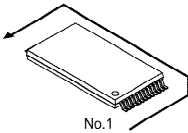
C2DBYY000021 208 Pin
C1AB00001494 208 Pin
C1ZBZ0001965 144 Pin
C1AB00001671 176 Pin
MN8271AT 208 Pin
TVRJ801 144 Pin



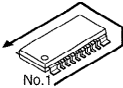
C0FBAD000074 128 Pin
C3HBMJ000006 100 Pin



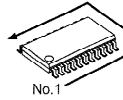
C1ZBZ0001776 144 Pin
C1AB00001638 100 Pin
C1AB00001673 48 Pin
MN66816BHL 100 Pin
C1AB00001523 48 Pin



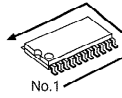
TVRJ743 48 Pin
TVRJ783 48 Pin
TVRJ788 48 Pin



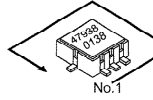
LB1831M 20 Pin



C1AB00001680 18 Pin
C0JBAR000327 16 Pin
TVSA0500 50 Pin
M62398FP 24 Pin
C1CB00001014 20 Pin
C2BBCB00013 18 Pin
C2BBFD000291 34 Pin
TVRJ528 48 Pin
M62393FP 20 Pin
PLPT16374A 48 Pin
M52755FP 36 Pin
C0JBAZ000855 20 Pin
C0JBAZ001707 16 Pin
C0JBAZ001633 20 Pin
TC74LCX541FT 20 Pin
T74VHCT541FT 20 Pin
C0JBAE000126 14 Pin
C0JBAM000114 16 Pin
C3ABPJ000035 86 Pin
C0JBAZ000788 24 Pin



C1BB00000646 20 Pin



C1GB00000041 8 Pin



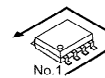
C0CBABD00017 3 Pin
AN78L12M 3 Pin
AN78L05M 3 Pin



C0CBCBE00001 7 Pin
C0DBFFD00005 7 Pin



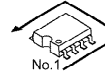
PQ05SZ11 3 Pin
PQ05SZ51 3 Pin



C9ZB00000422 8 Pin
C0JBAZ000851 14 Pin
C0CBADC00032 6 Pin
C0JBAB000003 8 Pin
C0JBAB000004 8 Pin
C0JBAR000327 16 Pin
C0JBAZ001264 8 Pin
M51957BFP 8 Pin
C1AB00001248 4 Pin
NJM2172V 14 Pin
PQ1R33 6 Pin
TC7WU04FUEL 8 Pin



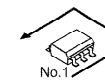
C0DBEZE00002 5 Pin
PQ20VZ1U 5 Pin
C0CBCBF00001 5 Pin
C0DBEZG00004 5 Pin
C0DBZHE00011 5 Pin



C3EBCC000045 8 Pin
C3EBJC000037 8 Pin
C1AB00001226 8 Pin



C0CBABD00015 3 Pin
C0CBABD00017 3 Pin
C0CBAAD00008 3 Pin



C3EBLC000019 8 Pin



TC7SH08FTL 5 Pin




2SB709A
2SD601AR
2SB710A

15. Exploded Views

16. Replacement Parts List

Important Safety Notice

Components identified by the International symbol  have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified parts.

Abbreviation of Part Name and Description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE	ALLOWANCE
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE	ALLOWANCE
C : Ceramic	C : $\pm 0.25\text{ pF}$
F : Electrolytic	D : $\pm 0.5\text{ pF}$
P : Polyester	F : $\pm 1\text{ pF}$
PP : Polypropylene	J : $\pm 5\%$
S : Polyetyrol	K : $\pm 10\%$
T : Tantalum	L : $\pm 15\%$
	M : $\pm 20\%$
	P : $+100\%, -0\%$
	Z : $+80\%, -20\%$

Notes:

For G** of Ref. No., not indicate illustration of it part on "Exploded Views".

Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

16.1. Common Components

Ref. No.	Part No.	Part Name & Description	Remarks
[MECHANICAL PARTS]			
G1	D4CDH5030001	THERMISTER	
K1	K0AKA000006	AC SWITCH	△
K2	K1HB04FD0002	USB CABLE	
K3	K1HB15FA0001	VGA CABLE	
K4	K2AH3B000016	AC INLET	△
K5	K2CG3FZ00008	POWER CORD	△PT-L750U,PT-L780NTU
K5-1	K2CM3FZ00001	POWER CORD(EUROPE)	△PT-L750E,PT-L780NTE
K5-2	K2CT3FZ00001	POWER CORD(ENGLAND)	△PT-L750E,PT-L780NTE
K6	K2KA2FA00001	AV CABLE	
K7	L0AA04C00003	SPEAKER	
K8	L5BDAXQ00107	LIQUID CRYSTAL DISPLAY(R)	L3P10X-41G00 (RED MARK)PT-L750U/E
	L5BDAXQ00110		L3P10X-42G00 (RED MARK)PT-L750U/E
K9	L5BDAXQ00108	LIQUID CRYSTAL DISPLAY(G)	L3P10X-42G00 (NO MARK)PT-L750U/E
	L5BDAXQ00111		L3P10X-41G00 (NO MARK)PT-L750U/E
K10	L5BDAXQ00109	LIQUID CRYSTAL DISPLAY(B)	L3P10X-41G00 (BLUE MARK)PT-L750U/E
	L5BDAXQ00112		L3P10X-42G00 (BLUE MARK)PT-L750U/E
K8	L5BDAXQ00101	LIQUID CRYSTAL DISPLAY(R)	L3P10X-45G00 (RED MARK)PT-L780NTU/E
	L5BDAXQ00104		L3P10X-46G00 (RED MARK)PT-L780NTU/E
K9	L5BDAXQ00102	LIQUID CRYSTAL DISPLAY(G)	L3P10X-46G00 (NO MARK)PT-L780NTU/E
	L5BDAXQ00105		L3P10X-45G00 (NO MARK)PT-L780NTU/E
K10	L5BDAXQ00103	LIQUID CRYSTAL DISPLAY(B)	L3P10X-45G00 (BLUE MARK)PT-L780NTU/E
	L5BDAXQ00106		L3P10X-46G00 (BLUE MARK)PT-L780NTU/E
K11	L6FAKCEH0003	FAN	△
K12	L6FAKEEH0007	FAN	△
K13	L6FCHC9H0001	LAMP FAN	△
K14	L6FCLDAH0001	FAN	△
K15	L6FCLDCH0001	FAN	△
K16	L6FCMFFH0001	FAN	△
K17	N2QAEA000011	REMOTE CONTROLLER	
K18	TBLB0039	ADJUST LEG (RIGHT)	
K19	TBLB0040	ADJUST LEG (LEFT)	
K20	TBLG3040	SIDE FOOT	
K21	TBLG3042	RUBBER LEG (REAR)	
K22	TBMA126	PANASONIC MARK	
G2	TBME784	MODEL NAME PLATE	PT-L750U
G3	TBME785	MODEL NAME PLATE	PT-L750E
G4	TBME781	MODEL NAME PLATE	PT-L780NTU
G5	TBME782	MODEL NAME PLATE	PT-L780NTE
G6	TBME790	MODEL NO. LABEL	PT-L750U

Ref. No.	Part No.	Part Name & Description	Remarks
G7	TBME791	MODEL NO. LABEL	PT-L750E
G8	TBME787	MODEL NO. LABEL	PT-L780NTU
G9	TBME788	MODEL NO. LABEL	PT-L780NTE
K23	TBXA36801	CONTROL BUTTON	
K24	TBXA37201	LENS CHANGE SWITCH	
K25	TEEC0033	LENS EXCHANGE UNIT	
K26	TEEC5084	DUCT(1)	
K27	TEEC5085	DUCT(2)	
K28	TEEC5086	OPTICAL DUCT (1)	
K29	TEEC5087	OPTICAL DUCT (2)	
K30	TEEC5088-1	PBS DUCT	
K31	TEEC5089	PBS COVER	
K32	TEEC5090	SOCKET COVER	
G10	TEF5001	CABLE STRAP(RECEIPT COVER	
K33	TEFC5021	SHIELD BOARD (K-PCB)	
K34	TEJF021	HANDLE PIN	
K35	TEKX012	LENS CHANGE SHIFT	
K36	TESA181-1	BIMETAL INSTAL METAL	
G11	TESD048	SPRING	
G12	THEA110	SCREW(RECEIPT COVER)	
G13	THEC035N	SCREW	
G14	THEC069U	SCREW	
G15	THEC066N	SCREW	
G16	THNG003X	NUT(RECEIPT COVER)	
K37	TKGF0074	PBS ARRAY	
K38	TKGF0075	LENS	
K39	TKKC5153	DISPERSION BOARD	
K40	TKKL5244	LENS COVER	
K41	TKNE049	FILTER	
K42	TKRA30801	HANDLE	
K43	TKZF5023	TERMINAL METAL	
K44	TKZJ5040	FAN INSTALL METAL(1)	
K45	TKZJ5041	FAN INSTALL METAL(2)	
G17	TKZJ5044	METAL (K-PCB)	
G18	TMKG336	RUBBER SEAL (SPEAKER-R)	
G19	TMKG336	RUBBER SEAL (SPEAKER-L)	
G20	TMKG357	SPEAKER SPACER	
G21	TMKK103	SHEET	
G22	TMKX012	LAMP COVER WASHER	
K46	TMKX412	POWER INSULATION SHEET(1)	
K47	TMKX413	POWER INSULATION SHEET(2)	
K48	TMKX414	INSULATION SHEET (K-PCB)	
G23	TMKX499	WASHAER(RECEIPT COVER)	
G24	TMME090	SPACER	
G25	TMME196	SPACER	
G26	TMMX024	SHEET (SPEAKER-R,L)	
K49	TMZK5016	SPEAKER BOX (SPEAKER-R,L)	
K50	TMZX5027	FILTER COVER	
G27	TPCB27205	CARTON	PT-L750U
G28	TPCB27206	CARTON	PT-L750E
G29	TPCB27202	CARTON	PT-L780NTU
G30	TPCB27203	CARTON	PT-L780NTE
G31	TPDA0668	CUSHION (UPPER)	
G32	TPDA0669	CUSHION (BOTTOM)	


Ref. No.	Part No.	Part Name & Description	Remarks
G33	TPDF0818	ACCESSORY CARTON	
G34	TPDF0888	PAD (1)	
G35	TPEH110	SET COVER	
G37	TQB817002-1	SAFETY SHEET	PT-L750U,PT-L780NTU
G38	TQBJ0109	INSTRUCTION BOOK(MAIN)	△PT-L750U,PT-L780NTU
G39	TQBJ0110	INSTRUCTION BOOK	△PT-L750E,PT-L780NTE
G40	TQBJ0107-1	INSTRUCTION BOOK(SUB)	△PT-L780NTU
G41	TQBJ0108-1	INSTRUCTION BOOK(SUB)	△PT-L780NTE
G42	TQD1712010	LABEL	
G43	TQDJ18004	GUARANTEE CARD (CANADA)	PT-L750U,PT-L780NTU
G44	TQDJ18015-1	GUARANTEE CARD (USA)	PT-L750U,PT-L780NTU
G45	TQF86202	LABEL	
G46	TSEX0004	BIMETAL	
K51	TSEX8005	SWITCH	△K0ADB000007
K52	TTFA0122	TERMINAL COVER ASSY	
K53	TUCJ5448	RADIATOR PLATE	
K54	TUCX5111	EARTH METAL(K-P)	
K55	TUCX5112	EARTH METAL	
K56	TUWC037	POWER BOX (1)	
K57	TUWC038	POWER BOX (2)	
K58	TUWC039-1	INSTAL METAL (K-PCB)	
K59	TUXE186	WL METAL (1)	
K60	TUXE187	SPEAKER INSTAL METAL (R)	
K61	TUXE188	SPEAKER INSTAL METAL (L)	
K62	TUXX255	LAMP FAN METAL (A)	
K63	TUXX256	LAMP FAN METAL (B)	
K64	TXFKL01VJN1	LAMP COVER ASSY(WITH FAN)	△
K65	TXFKR01VJN1	RECEIPT COVER	
G47	TXJ/K1VJN7	TEMP FUSE WITH WIRE	
K66	TXZKG02VJN1	POLARIZING PLATE/IN(R)	
K67	TXZKG03VJN1	POLARIZING PLATE/IN(G)	
K68	TXZKG04VJN1	POLARIZING PLATE/IN(B)	
K69	XSB3+8FN	SCREW	
G48	XSB4+10FC	SCREW	
G49	XSN3+8	SCREW(LENS EXCHANGE UNIT)	
K70	XSN4+10	SCREW	
G50	XSN4+15	SCREW	
G51	XSS2+6FZ	SCREW	
G52	XTBT969Z	SCREW	
G53	XTN3+6G	SCREW	
G54	XTV3+10G	SCREW	
G55	XTV3+12A	SCREW	
G56	XTW3+8P	TAPPING SCREW	
G57	XUC3FY	WASHER	
G58	XYN2+F6	SCREW	
G59	XYN3+F16	SCREW	
G60	XYN3+F20FZ	SCREW	
G61	XYN3+F6	SCREW	
G62	XYN3+F8	SCREW	
G63	XYN3+J8	SCREW	
G64	XYN4+E8	SCREW	
G65	XYN4+F30	SCREW	
G66	XYN4+J35	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
G67	XYN4+J8	SCREW	
G68	XZBT6532	POLY BAG	PT-L750U
K71	TXFKF99PPLZ	UPPER COVER	PT-L750U/E
	TXFKF99PPJZ	UPPER COVER	PT-L780NTU/E
K72	TXFKF98PPLZ	BOTTOM COVER	PT-L750U
	TXFKF99PPQZ	BOTTOM COVER	PT-L750E
	TXFKF98PPJZ	BOTTOM COVER	PT-L780NTU
	TXFKF99PPNZ	BOTTOM COVER	PT-L780NTE
K73	TXFEC99VJN1	ANALYSIS BLOCK	
K74	TXFEN99VJN2	OPTICAL BLOCK	PT-L750U/E
	TXFEN99VJN1	OPTICAL BLOCK	PT-L780NTU/E
K75	TXFGP99VJN2	POLARIZING PLATE/OUT(R)	PT-L750U/E
K76	TXFGP98VJN2	POLARIZING PLATE/OUT(G)	PT-L750U/E
K77	TXFGP97VJN2	POLARIZING PLATE/OUT(B)	PT-L750U/E
K75	TXFGP99VJN1A	POLARIZING PLATE/OUT(R)	L5BDAXQ00101 / (PT-L780NTU/ E)
	TXFGP99VJN1B	POLARIZING PLATE/OUT(R)	L5BDAXQ00104 / (PT-L780NTU/ E)
K76	TXFGP98VJN1A	POLARIZING PLATE/OUT(G)	L5BDAXQ00102 / (PT-L780NTU/ E)
	TXFGP98VJN1B	POLARIZING PLATE/OUT(G)	L5BDAXQ00105 / (PT-L780NTU/ E)
K77	TXFGP97VJN1A	POLARIZING PLATE/OUT(B)	L5BDAXQ00103 / (PT-L780NTU/ E)
	TXFGP97VJN1B	POLARIZING PLATE/OUT(B)	L5BDAXQ00106 / (PT-L780NTU/ E)
G69	K1YYZZ000036	PC CARD SLOT GUIDE UNIT	PT-L780NTU/E
K78	RP-SD008BEZ0	SD CARD (8M)	PT-L780NTU/E
K79	RP-SDCC0	SD CARD CASE	PT-L780NTU/E
G70	TESD038	SPRING	PT-L780NTU/E
G71	THTA019Z	SCREW	PT-L780NTU/E
K80	TKKL5241	CARD COVER (UPPER COVER)	PT-L780NTU/E
K81	TKKL5243	CARD COVER	PT-L780NTU/E
K82	TKZA5072	PC SLOT COVER HOLD	PT-L780NTU/E
G72	TMKK162	SHEET	PT-L780NTU/E
G73	TMKX339	BARRIER	PT-L780NTU/E
G74	TSXL193	CABLE	PT-L780NTU/E
K83	TUCC5732	PC SLOT COVER	PT-L780NTU/E
G75	XYN2+F5	SCREW	CIRCUIT BOARD WL(PT- L780NTU/E)
G76	TXFQB99VJN1	CD-ROM	PT-L780NTU/E
[INTEGRATED CIRCUIT]			
IC1001	C0FBAD000074	I.C	
IC1002	TC7SH08FTL	I.C	C0JBAA000101
IC1003	C1AB00001680	I.C	
IC1004	C0JBAR000327	I.C	
IC1005	C1AB00001639	I.C	
IC1006	TVRJ782-1	I.C	
IC1007	C1ZBZ0001965	I.C	
IC1009	C0JBAR000327	I.C	
IC1010	TVRJ801-1	I.C	
IC1011	TVRJ783	I.C	
IC1012	M52755FP	I.C	C1AB00000789

Ref. No.	Part No.	Part Name & Description	Remarks
IC1014	C0JBAZ000855	I.C	
IC1015	PQ20VZ1U	I.C	C0DBEZG00005
IC1016	M51957BFP	I.C	C0EBB0000024
IC1017	C3EBJC000037	I.C	
IC1018	C1GB00000041	I.C	
IC1020	C3EBCC000045	I.C	
IC1021	C3EBCC000045	I.C	
IC1022	C0ABGB000016	I.C	
IC1023	C0ABGB000016	I.C	
IC1024	C0ABGB000016	I.C	
IC1026	C1BB00000646	I.C	
IC1027	C1BB00000646	I.C	
IC1028	C0DBEZE00002	I.C	
IC1029	C0DBEZE00002	I.C	
IC1030	PQ20VZ1U	I.C	C0DBEZG00005
IC1031	C0DBEZE00002	I.C	
IC1032	C0JBAZ001264	I.C	
IC1033	C0JBAZ001264	I.C	
IC1034	C0JBAB000003	I.C	
IC1035	C0JBAB000004	I.C	
IC1037	C0JBAZ000855	I.C	
IC1038	C0JBAM000114	I.C	
IC1039	C0JBAZ000851	I.C	
IC1040	C0JBAZ000851	I.C	
IC1041	C0JBAZ000851	I.C	
IC1042	C0CBABD00015	I.C	
IC1043	C0DBEZG00004	I.C	
IC1044	C0CBAAD00008	I.C	
IC1045	C0CBABD00017	I.C	
IC1046	C0CBABD00017	I.C	
IC1047	C0CBABD00015	I.C	
IC1048	C2BBFD000291	I.C	
IC1049	TVRJ528	I.C	
IC1050	C1AB00001671	I.C	
IC1051	C1AB00001523	I.C	
IC1052	C1AB00001523	I.C	
IC1053	C1AB00001523	I.C	
IC1054	C0ZBZ0000705	I.C	
IC1055	C0ZBZ0000705	I.C	
IC1056	C0ZBZ0000705	I.C	
IC1057	C1AB00001673	I.C	
IC1058	C1AB00001673	I.C	
IC1059	C1AB00001673	I.C	
IC1060	M62398FP	I.C	C0FBBD000087
IC1061	AN78L12M	I.C	
IC1062	AN78L05M	I.C	
IC1063	M62393FP	I.C	C0FBBD000085
IC1064	C0JBAR000327	I.C	
IC1065	NJM2172V	I.C	C0ZBZ0000269
IC1066	PLPT16374A	I.C	
IC1067	PLPT16374A	I.C	
IC1068	C0JBAZ000855	I.C	
IC1070	C1CB00001014	I.C	
IC1073	C2BBCB000013	I.C	

Ref. No.	Part No.	Part Name & Description	Remarks
IC1075	C9ZB00000422	I.C	
IC1076	PQ05SZ51	I.C	C0CBADE00011
IC1077	LB1831M	I.C	C0GBD0000002
IC1079	C0JBZB000290	I.C	
IC1081	C0CBADC00032	I.C	
IC1082	C1AB00001248	I.C	
IC1083	C1AB00001226	I.C	
IC1084	C0CBCBF00001	I.C	
IC1085	PQ1R33	I.C	C0CBABC00037
IC1086	C1AB00001494	I.C	
IC1087	TVSA0500	I.C	C3ABMG000074
IC1088	MN8271AT	I.C	
IC1089	TVRJ743	I.C	
IC1090	C3HBMJ000006	I.C	
IC1092	C3EBLC000019	I.C	
IC1093	C0CBADC00032	I.C	
IC1095	C0JBAZ000855	I.C	
IC1097	C0JBAZ001707	I.C	
IC1098	C0JBAZ001707	I.C	
IC1099	C0JBAZ001707	I.C	
IC1101	C3EBCC000045	I.C	
IC1102	C0JBAZ001707	I.C	
IC1103	C0CBCBE00001	I.C	
IC1104	C0CBCBE00001	I.C	
IC1105	PQ05SZ11	I.C	C0DBZHG00001
IC1106	C1AB00001638	I.C	
IC1107	C0DBEZG00004	I.C	
IC1108	C0CBCBF00001	I.C	
IC1109	C0JBAZ000851	I.C	
IC1110	C0ABGB000016	I.C	
IC1111	C0DBEZE00002	I.C	
IC3022	C0ABGB000016	I.C	
IC3023	C0ABGB000016	I.C	
IC3024	C0ABGB000016	I.C	
IC9201	C0DBZZZ00046	I.C	
IC9202	C0DBEZE00002	I.C	
IC9203	C0BBAB000010	I.C	
IC9601	C0ZAZ0000077	I.C	
IC9602	C0ZAZ0000077	I.C	
IC9701	AN78L09M	I.C	
IC9702	AN78L05M	I.C	
IC9703	C0DBALC00005	I.C	
[TRANSISTORS]			
Q1001	2SD601AR	TRANSISTOR	2SD0601AR
Q1002	2SD601AR	TRANSISTOR	2SD0601AR
Q1003	2SD601AR	TRANSISTOR	2SD0601AR
Q1004	2SK198R	TRANSISTOR	2SK01980R
Q1005	2SD601AR	TRANSISTOR	2SD0601AR
Q1006	2SB709A	TRANSISTOR	2SB0709A
Q1007	2SD601AR	TRANSISTOR	2SD0601AR
Q1008	2SB709A	TRANSISTOR	2SB0709A
Q1009	2SD601AR	TRANSISTOR	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Remarks
Q1010	2SD601AR	TRANSISTOR	2SD0601AR
Q1011	2SD601AR	TRANSISTOR	2SD0601AR
Q1012	B1ABBB000032	TRANSISTOR	
Q1013	B1ABBB000032	TRANSISTOR	
Q1014	2SB709A	TRANSISTOR	2SB0709A
Q1015	2SD601AR	TRANSISTOR	2SD0601AR
Q1016	2SD601AR	TRANSISTOR	2SD0601AR
Q1017	2SD601AR	TRANSISTOR	2SD0601AR
Q1018	2SB709A	TRANSISTOR	2SB0709A
Q1019	2SD601AR	TRANSISTOR	2SD0601AR
Q1020	2SB709A	TRANSISTOR	2SB0709A
Q1021	B1ABBB000032	TRANSISTOR	
Q1022	2SD601AR	TRANSISTOR	2SD0601AR
Q1023	2SD601AR	TRANSISTOR	2SD0601AR
Q1024	2SB709A	TRANSISTOR	2SB0709A
Q1025	2SD601AR	TRANSISTOR	2SD0601AR
Q1026	2SB709A	TRANSISTOR	2SB0709A
Q1027	2SD601AR	TRANSISTOR	2SD0601AR
Q1028	2SB709A	TRANSISTOR	2SB0709A
Q1029	2SD601AR	TRANSISTOR	2SD0601AR
Q1030	2SB709A	TRANSISTOR	2SB0709A
Q1031	2SD601AR	TRANSISTOR	2SD0601AR
Q1032	2SD601AR	TRANSISTOR	2SD0601AR
Q1033	2SD601AR	TRANSISTOR	2SD0601AR
Q1034	2SD601AR	TRANSISTOR	2SD0601AR
Q1035	2SD601AR	TRANSISTOR	2SD0601AR
Q1036	2SD601AR	TRANSISTOR	2SD0601AR
Q1037	2SD601AR	TRANSISTOR	2SD0601AR
Q1038	2SD601AR	TRANSISTOR	2SD0601AR
Q1039	2SB709A	TRANSISTOR	2SB0709A
Q1040	2SK620	FET	2SK0620
Q1041	2SK620	FET	2SK0620
Q1042	2SK620	FET	2SK0620
Q1043	2SK620	FET	2SK0620
Q1044	2SD601AR	TRANSISTOR	2SD0601AR
Q1046	2SD601AR	TRANSISTOR	2SD0601AR
Q1047	2SD601AR	TRANSISTOR	2SD0601AR
Q1048	2SD601AR	TRANSISTOR	2SD0601AR
Q1049	2SD601AR	TRANSISTOR	2SD0601AR
Q1050	2SB709A	TRANSISTOR	2SB0709A
Q1051	2SB709A	TRANSISTOR	2SB0709A
Q1052	2SB709A	TRANSISTOR	2SB0709A
Q1053	2SD601AR	TRANSISTOR	2SD0601AR
Q1054	2SD601AR	TRANSISTOR	2SD0601AR
Q1055	2SD601AR	TRANSISTOR	2SD0601AR
Q1056	2SD601AR	TRANSISTOR	2SD0601AR
Q1057	2SB709A	TRANSISTOR	2SB0709A
Q1058	2SD601AR	TRANSISTOR	2SD0601AR
Q1059	2SB709A	TRANSISTOR	2SB0709A
Q1060	2SD601AR	TRANSISTOR	2SD0601AR
Q1061	2SB709A	TRANSISTOR	2SB0709A
Q1062	2SD601AR	TRANSISTOR	2SD0601AR
Q1063	2SB709A	TRANSISTOR	2SB0709A
Q1064	2SD601AR	TRANSISTOR	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Remarks
Q1065	2SB709A	TRANSISTOR	2SB0709A
Q1066	2SD601AR	TRANSISTOR	2SD0601AR
Q1067	2SB709A	TRANSISTOR	2SB0709A
Q1068	2SD601AR	TRANSISTOR	2SD0601AR
Q3001	B1ABBB000032	TRANSISTOR	
Q3002	B1ABBB000032	TRANSISTOR	
Q3003	B1ABBB000032	TRANSISTOR	
Q3004	2SD601AR	TRANSISTOR	2SD0601AR
Q3005	2SD601AR	TRANSISTOR	2SD0601AR
Q3006	2SD601AR	TRANSISTOR	2SD0601AR
Q3007	2SD601AR	TRANSISTOR	2SD0601AR
Q3008	2SD601AR	TRANSISTOR	2SD0601AR
Q3501	2SB709A	TRANSISTOR	2SB0709A
Q3502	2SB709A	TRANSISTOR	2SB0709A
Q3503	2SD601AR	TRANSISTOR	2SD0601AR
Q3504	2SD601AR	TRANSISTOR	2SD0601AR
Q3505	2SD601AR	TRANSISTOR	2SD0601AR
Q9201	B1DEGQ000017	TRANSISTOR	
Q9202	B1DEGQ000017	TRANSISTOR	
Q9203	B1DEGQ000017	TRANSISTOR	
Q9205	2SD601AR	TRANSISTOR	2SD0601AR
Q9206	2SB709A	TRANSISTOR	2SB0709A
Q9208	2SD601AR	TRANSISTOR	2SD0601AR
Q9601	B1DEGQ000017	TRANSISTOR	
Q9602	B1DEGQ000017	TRANSISTOR	
Q9603	B1DEGQ000017	TRANSISTOR	
Q9606	2SB710A	TRANSISTOR	2SB0710A
Q9607	2SB710A	TRANSISTOR	2SB0710A
Q9608	B1JACQ000002	TRANSISTOR	
Q9609	B1JACQ000002	TRANSISTOR	
Q9610	2SB710A	TRANSISTOR	2SB0710A
Q9611	2SB710A	TRANSISTOR	2SB0710A
Q9612	B1JACQ000002	TRANSISTOR	
Q9613	B1JACQ000002	TRANSISTOR	
[DIODES]			
D151	S1VBA60	DIODE	
D1001	MA3056M	ZENER DIODE	MAZ30560M
D1002	MA3056M	ZENER DIODE	MAZ30560M
D1003	MA3056M	ZENER DIODE	MAZ30560M
D1004	MA3100H	ZENER DIODE	MAZ31000H
D1005	MA3100H	ZENER DIODE	MAZ31000H
D1006	MA3100H	ZENER DIODE	MAZ31000H
D1007	MA3100H	ZENER DIODE	MAZ31000H
D1008	MA3056M	ZENER DIODE	MAZ30560M
D1009	MA3056M	ZENER DIODE	MAZ30560M
D1010	MA3150M	DIODE	MAZ31500M
D1011	MA3150M	DIODE	MAZ31500M
D1012	MA3150M	DIODE	MAZ31500M
D1013	MA3150M	DIODE	MAZ31500M
D1014	MA3056M	ZENER DIODE	MAZ30560M
D1015	MA3056M	ZENER DIODE	MAZ30560M
D1016	MA3056M	ZENER DIODE	MAZ30560M

Ref. No.	Part No.	Part Name & Description	Remarks
D1017	MA3056M	ZENER DIODE	MAZ30560M
D1018	MA3056M	ZENER DIODE	MAZ30560M
D1019	MA3056M	ZENER DIODE	MAZ30560M
D1020	MA3056M	ZENER DIODE	MAZ30560M
D1021	MA3056M	ZENER DIODE	MAZ30560M
D1022	MA157A	DIODE	MA3X157A
D1023	MA157A	DIODE	MA3X157A
D1024	MA157A	DIODE	MA3X157A
D1025	MA3056M	ZENER DIODE	MAZ30560M
D1026	MA3056M	ZENER DIODE	MAZ30560M
D1027	MA157A	DIODE	MA3X157A
D1028	MA157A	DIODE	MA3X157A
D1029	MA157A	DIODE	MA3X157A
D1030	MA157A	DIODE	MA3X157A
D1031	MA157A	DIODE	MA3X157A
D1032	MA157A	DIODE	MA3X157A
D1033	MA157A	DIODE	MA3X157A
D1034	MA157A	DIODE	MA3X157A
D1035	MA157A	DIODE	MA3X157A
D1036	MA157A	DIODE	MA3X157A
D1037	MA157A	DIODE	MA3X157A
D1038	MA157A	DIODE	MA3X157A
D1039	MA728	DIODE	MA2J728
D1040	MA3150M	DIODE	MAZ31500M
D1041	MA3150M	DIODE	MAZ31500M
D1042	MA3150M	DIODE	MAZ31500M
D1043	MA3150M	DIODE	MAZ31500M
D1044	MA3056M	ZENER DIODE	MAZ30560M
D1045	MA3056M	ZENER DIODE	MAZ30560M
D1046	MA3056M	ZENER DIODE	MAZ30560M
D1047	MA152K	DIODE	MA3X152K
D1048	MA152K	DIODE	MA3X152K
D1049	MA3033H	DIODE	
D1050	B3ABB0000089	DIODE	
D1052	LNJ208R8ARA	LED	
D1053	LNJ208R8ARA	LED	
D1054	D4B503390001	THERMISTOR	
D1055	D4B503390001	THERMISTOR	
D1056	MA3047M	ZENER DIODE	MAZ30470M
D1057	MA3047M	ZENER DIODE	MAZ30470M
D1059	D1FL20UF4063	DIODE	B0HCMM0000001
D3001	MA3056M	ZENER DIODE	MAZ30560M
D3002	MA3056M	ZENER DIODE	MAZ30560M
D3003	MA157A	DIODE	MA3X157A
D3004	MA157A	DIODE	MA3X157A
D3005	MA157A	DIODE	MA3X157A
D3006	MA153A	DIODE	MA3X153A
D3007	MA153A	DIODE	MA3X153A
D3008	MA153A	DIODE	MA3X153A
D3009	MA153A	DIODE	MA3X153A
D3010	MA153A	DIODE	MA3X153A
D3501	LNJ107W5ARA1	LED	
D3502	LNJ208R8ARA	LED	
D3503	LNJ208R8ARA	LED	

Ref. No.	Part No.	Part Name & Description	Remarks
D3504	LNJ308G8TRA	LED	
D3701	MA157A	DIODE	MA3X157A
D9202	B2BAKR000006	DIODE	
D9203	B3PAC0000035	DIODE	
D9207	M1FL20UF4063	DIODE	B0HCMM000009
D9607	MA158	DIODE	MA3X158
D9608	MA720	DIODE	MA3X720
D9610	MA158	DIODE	MA3X158
D9611	MA720	DIODE	MA3X720
D9613	MA158	DIODE	MA3X158
D9614	MA720	DIODE	MA3X720
D9616	MA158	DIODE	MA3X158
D9617	MA720	DIODE	MA3X720
D9619	MA720	DIODE	MA3X720
D9620	MA720	DIODE	MA3X720
D9621	MA720	DIODE	MA3X720
D9622	MA720	DIODE	MA3X720
D9623	MA720	DIODE	MA3X720
D9624	D1FL40F4063	DIODE	B0ECHP000001
D9625	D1FL40F4063	DIODE	B0ECHP000001
D9626	MA720	DIODE	MA3X720
D9627	MA720	DIODE	MA3X720
D9628	MA720	DIODE	MA3X720
D9629	MA720	DIODE	MA3X720
D9630	MA720	DIODE	MA3X720
D9631	D1FL40F4063	DIODE	B0ECHP000001
D9632	D1FL40F4063	DIODE	B0ECHP000001
[COILS]			
L1002	EXCML16A270U	COIL	
L1003	ELJFA470JF	COIL	
L1004	EXCML16A270U	COIL	
L1005	EXCML16A270U	COIL	
L1006	ELJFA6R8JB	CHIP COIL	
L1007	ELJFA6R8JB	CHIP COIL	
L1008	ELJFA6R8JB	CHIP COIL	
L1009	EXCML16A270U	COIL	
L1010	EXCML16A270U	COIL	
L1011	EXCML16A270U	COIL	
L1012	EXCML16A270U	COIL	
L1013	EXCML16A270U	COIL	
L1014	EXCML16A270U	COIL	
L1015	EXCML16A270U	COIL	
L1016	EXCML16A270U	COIL	
L1017	EXCML16A270U	COIL	
L1018	ELJFA100KF	COIL	
L1019	ELJFA100KF	COIL	
L1020	ELJFA6R8JB	CHIP COIL	
L1021	EXCML16A270U	COIL	
L1022	EXCML16A270U	COIL	
L1023	TSKA108	CHOKE COIL	J0JCC0000150
L1024	EXCML16A270U	COIL	
L1025	EXCML16A270U	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L1026	EXCML16A270U	COIL	
L1027	EXCML16A270U	COIL	
L1028	EXCML16A270U	COIL	
L1031	EXCML16A270U	COIL	
L1032	EZASCE101M	CAPACITOR ARRAY	
L1033	EZASCE101M	CAPACITOR ARRAY	
L1034	EZASCE101M	CAPACITOR ARRAY	
L1035	EZASCE101M	CAPACITOR ARRAY	
L1036	EZASCE101M	CAPACITOR ARRAY	
L1037	EZASCE101M	CAPACITOR ARRAY	
L1038	EXCML16A270U	COIL	
L1039	EXCML16A270U	COIL	
L1040	EXCML16A270U	COIL	
L1041	EXCML16A270U	COIL	
L1042	EXCML16A270U	COIL	
L1043	EXCML16A270U	COIL	
L1044	ELJFA6R8JB	CHIP COIL	
L1045	EXCML16A270U	COIL	
L1047	EXCML16A270U	COIL	
L1048	ELJFA6R8JB	CHIP COIL	
L1049	EXCML16A270U	COIL	
L1050	ELJFA470JF	COIL	
L1051	EXCML16A270U	COIL	
L1052	EXCML16A270U	COIL	
L1053	EXCML16A270U	COIL	
L1054	EXCML16A270U	COIL	
L1055	EXCML16A270U	COIL	
L1056	EXCML16A270U	COIL	
L1057	EXCML16A270U	COIL	
L1058	EXCML16A270U	COIL	
L1059	EXCML16A270U	COIL	
L1060	EXCML16A270U	COIL	
L1061	EXCML16A270U	COIL	
L1062	EXCML16A270U	COIL	
L1063	EXCML16A270U	COIL	
L1064	EXCML16A270U	COIL	
L1065	EXCML16A270U	COIL	
L1066	EXCML16A270U	COIL	
L1067	EXCML16A270U	COIL	
L1068	EXCML16A270U	COIL	
L1069	EXCML16A270U	COIL	
L1070	EXCML16A270U	COIL	
L1071	EXCML16A270U	COIL	
L1072	EXCML16A270U	COIL	
L1073	EXCML16A270U	COIL	
L1074	EXCML16A270U	COIL	
L1075	EXCML16A270U	COIL	
L1076	EXCML16A270U	COIL	
L1077	EXCML16A270U	COIL	
L1078	EXCML16A270U	COIL	
L1079	EXCML16A270U	COIL	
L1080	EXCML16A270U	COIL	
L1081	EXCML16A270U	COIL	
L3014	J0JJC0000016	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
LC1001	ELKE471FA	EMI FILTER	
LC1002	ELKE471FA	EMI FILTER	
LC1003	ELKE471FA	EMI FILTER	
LC1004	ELKE471FA	EMI FILTER	
LC1005	ELKE471FA	EMI FILTER	
LC1006	ELKE471FA	EMI FILTER	
LC3001	ELKE103FA	EMI FILTER	
LC3002	ELKE103FA	EMI FILTER	
LC3003	ELKE103FA	EMI FILTER	
LC3004	ELKE103FA	EMI FILTER	
LC3005	ELKE103FA	EMI FILTER	
[RESISTORS]			
R134	ERX2SJ2R2	M 2.2 OHM, J, 2W	
R1001	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1002	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1003	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1004	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1005	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1006	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1007	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1008	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1009	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1010	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1011	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1012	ERJ3GEYJ154	M 150 OHM,J,1/16W	
R1013	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1014	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1015	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1016	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1017	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1018	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1019	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1020	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1021	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1022	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1023	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1024	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1025	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1026	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1027	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1028	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1029	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1030	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1031	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1032	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1033	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1034	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1035	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1036	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1037	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1038	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1039	ERJ3GEYJ473	M 47K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1040	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1041	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1042	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1043	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1044	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1045	ERJ3GEYF683	M 18K OHM, 1/16W	
R1046	ERJ3GEYF183	M 18K OHM,J,1/16W	
R1047	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1048	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1049	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1050	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1051	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1052	ERJ1TYJ470	M 47 OHM, 1W	
R1053	ERJ1TYJ470	M 47 OHM, 1W	
R1054	ERJ1TYJ470	M 47 OHM, 1W	
R1055	ERJ1TYJ470	M 47 OHM, 1W	
R1056	ERJ1TYJ470	M 47 OHM, 1W	
R1057	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1058	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1059	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1060	ERJ1TYJ470	M 47 OHM, 1W	
R1061	ERJ1TYJ470	M 47 OHM, 1W	
R1062	ERJ1TYJ470	M 47 OHM, 1W	
R1063	ERJ1TYJ470	M 47 OHM, 1W	
R1064	ERJ1TYJ470	M 47 OHM, 1W	
R1065	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1066	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1068	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1069	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1070	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1071	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1072	ERJ6ENF1500	M 150 OHM, 1/10W	
R1073	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1074	EXB38V220J	RESISTOR ARRAY	
R1075	EXB38V220J	RESISTOR ARRAY	
R1076	EXB38V220J	RESISTOR ARRAY	
R1077	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1078	EXB38V220J	RESISTOR ARRAY	
R1079	EXB38V220J	RESISTOR ARRAY	
R1080	EXB38V220J	RESISTOR ARRAY	
R1081	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1082	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1083	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1084	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1087	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1088	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1089	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R1090	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1091	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1092	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1093	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1095	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1096	ERJ3GEYJ823	M 82KOHM,J,1/16W	
R1097	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1098	ERJ3GEYJ301	M 300 OHM,J,1/16W	
R1099	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1100	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1101	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1102	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1103	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1104	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1105	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1106	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1107	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1108	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1109	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1110	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1111	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1112	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1113	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1114	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1115	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1116	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1117	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1118	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1119	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1120	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1121	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1122	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1123	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1124	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1125	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1126	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1127	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1128	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1129	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1130	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1131	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1132	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1133	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1134	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1135	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1136	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1137	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1138	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1139	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1140	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1141	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1142	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1143	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1144	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1145	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1146	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1147	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1148	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1149	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1150	ERJ3GEYJ274	M 270 OHM,J,1/16W	
R1151	ERJ3GEYJ331	M 330 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1152	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1153	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1154	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1155	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1156	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1157	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1158	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1160	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1161	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1162	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1163	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1164	ERJ3GEYJ271	M 270 OHM,J,1/16W	
R1165	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1166	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1167	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1168	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1169	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1170	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1171	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1172	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1173	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1174	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1175	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1176	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1177	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1178	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1179	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1180	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R1181	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1182	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1183	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1184	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1185	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1186	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1187	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1188	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1189	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1190	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1191	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1192	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1193	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1194	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1195	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R1196	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1197	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1198	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1199	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1200	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1201	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1202	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1203	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1204	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1205	ERJ3GEYJ180	M 18 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1206	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1207	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1208	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1209	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1210	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1211	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1212	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1213	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1214	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1215	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1216	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1217	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1218	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1219	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1220	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1221	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1222	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1223	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1224	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1225	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1226	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1227	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1228	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1229	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1230	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1232	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1233	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1234	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1235	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1236	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1237	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1238	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1239	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1240	EXB38V560J	RESISTOR ARRAY	
R1241	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1242	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1243	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1245	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R1246	EXB38V560J	RESISTOR ARRAY	
R1251	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1252	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1253	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1254	EXB38V560J	RESISTOR ARRAY	
R1255	EXB38V560J	RESISTOR ARRAY	
R1256	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1257	EXB38V560J	RESISTOR ARRAY	
R1258	EXB38V560J	RESISTOR ARRAY	
R1259	EXB38V220J	RESISTOR ARRAY	
R1260	EXB38V220J	RESISTOR ARRAY	
R1261	EXB38V560J	RESISTOR ARRAY	
R1262	EXB38V560J	RESISTOR ARRAY	
R1263	EXB38V560J	RESISTOR ARRAY	
R1264	EXB38V560J	RESISTOR ARRAY	
R1265	EXB38V560J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1266	EXB38V560J	RESISTOR ARRAY	
R1267	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	
R1268	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1269	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1270	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1271	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1272	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1273	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1274	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1275	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1276	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1277	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1278	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1279	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1280	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1281	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1282	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1283	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1284	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1285	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1286	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1287	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1288	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
R1288	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1289	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1290	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1291	EXB38V473J	RESISTOR ARRAY	
R1292	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1294	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1295	EXB38V473J	RESISTOR ARRAY	
R1296	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R1298	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R1299	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1300	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1301	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1302	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1303	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1304	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1305	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1306	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1307	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1308	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1309	EXB38V220J	RESISTOR ARRAY	
R1310	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1311	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1312	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1313	EXB38V472J	RESISTOR ARRAY	
R1314	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1315	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1316	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1317	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1318	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1319	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1320	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1321	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1322	ERJ6GEYJ105	M 1MOHM,J,1/10W	
R1323	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1324	EXB38V472J	RESISTOR ARRAY	
R1325	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1326	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1327	EXB38V220J	RESISTOR ARRAY	
R1328	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1329	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1330	EXB38VR000	RESISTOR ARRAY	
R1331	EXB38VR000	RESISTOR ARRAY	
R1332	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1333	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1334	EXB38VR000	RESISTOR ARRAY	
R1335	EXB38VR000	RESISTOR ARRAY	
R1336	ERJ3GEYJ101	M 22 OHM,J,1/16W	D0GB101JA002
R1338	ERJ3EKF1004	M1000KOHM, 0.063W	
R1339	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1340	EXB38VR000	RESISTOR ARRAY	
R1341	EXB38VR000	RESISTOR ARRAY	
R1342	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1343	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1346	EXB38VR000	RESISTOR ARRAY	
R1347	EXB38VR000	RESISTOR ARRAY	
R1348	EXB38VR000	RESISTOR ARRAY	
R1349	EXB38VR000	RESISTOR ARRAY	
R1350	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1351	EXB38V220J	RESISTOR ARRAY	
R1352	EXB38VR000	RESISTOR ARRAY	
R1353	EXB38VR000	RESISTOR ARRAY	
R1354	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1355	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1356	ERJ6ENF1001	M 1KOHM, 1/10W	
R1357	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1358	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1359	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1360	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1361	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1362	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1363	ERJ6ENF3300	M 330 OHM, 1/10W	
R1364	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1365	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1366	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1367	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1368	ERJ6ENF2001	M 2KOHM, 1/10W	
R1370	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1371	ERJ3GEY0R00	M 0 OHM,J,1/16W	
R1373	ERJ3GEY0R00	M 0 OHM,J,1/16W	
R1379	ERJ1TYJ151	M 150 OHM, 1W	
R1380	ERJ1TYJ151	M 150 OHM, 1W	
R1381	ERJ6ENF2001	M 2K OHM,J,1/10W	
R1382	ERJ8ENF1201	M 1.2KOHM, 1/8W	
R1383	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1384	ERJ8ENF1201	M 1.2KOHM, 1/8W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1385	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1386	ERJ6ENF2700	M 270 OHM, 1/10W	
R1387	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1388	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1389	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1390	ERJ6ENF2700	M 270 OHM, 1/10W	
R1391	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1392	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1393	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1394	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1395	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1396	ERJ3GEYJ222	M2.2K OHM,J,1/16W	
R1397	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1398	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1399	ERJ6ENF2001	M 2KOHM, 1/10W	
R1401	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1402	ERJ3GEY0R00	M 0 OHM,J,1/16W	
R1405	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1406	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1407	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1409	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1410	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1411	ERJ8ENF1201	M 1.2KOHM, 1/8W	
R1412	ERJ3GEYJ394	M 390KOHM,J,1/16W	
R1413	ERJ6ENF39R0	M 39 OHM, 1/10W	
R1414	ERJ6ENF2700	M 270 OHM, 1/10W	
R1415	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1416	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1417	ERJ6ENF1001	M 1KOHM, 1/10W	
R1419	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1421	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1422	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1423	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1424	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R1425	ERJ6ENF47R0	M 47 OHM, 1/10W	
R1428	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1431	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1434	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1435	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1436	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1440	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1443	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1444	ERJ6ENF3300	M 330 OHM, 1/10W	
R1445	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1446	ERJ3GEYJ183	M 18K OHM,J,1/16W	
R1447	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1448	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1449	ERJ6ENF2001	M 2KOHM, 1/10W	
R1450	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1451	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1452	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1454	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1455	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1457	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1460	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1463	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1464	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1465	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1467	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1468	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1470	ERJ8ENF1201	M 1.2KOHM,J, 1/8W	
R1471	ERJ6ENF39R0	M 39 OHM,J,1/10W	
R1472	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1473	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1474	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1475	ERJ6ENF2700	M 270 OHM, 1/10W	
R1476	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1477	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1478	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1479	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1480	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1481	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1482	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1484	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1485	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1486	EXB38V220J	RESISTOR ARRAY	
R1487	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1490	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1492	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1494	EXB38V220J	RESISTOR ARRAY	
R1495	EXB38V220J	RESISTOR ARRAY	
R1496	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1498	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1499	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1500	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1502	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1504	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1505	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1506	EXB38V220J	RESISTOR ARRAY	
R1508	ECJ1XB0J105Z	C 1 UF,K, 6.3V	
R1509	EXB38V220J	RESISTOR ARRAY	
R1510	EXB38V220J	RESISTOR ARRAY	
R1511	EXB38V220J	RESISTOR ARRAY	
R1512	EXB38V220J	RESISTOR ARRAY	
R1513	EXB38V220J	RESISTOR ARRAY	
R1514	EXB38V220J	RESISTOR ARRAY	
R1515	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1517	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1518	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1519	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1520	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1521	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1522	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1523	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1524	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1526	EXB38V220J	RESISTOR ARRAY	
R1528	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1529	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1530	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1531	EXB38V100J	RESISTOR ARRAY	
R1532	EXB38V100J	RESISTOR ARRAY	
R1533	EXB38V100J	RESISTOR ARRAY	
R1534	EXB38V100J	RESISTOR ARRAY	
R1535	EXB38V100J	RESISTOR ARRAY	
R1536	EXB38V100J	RESISTOR ARRAY	
R1537	EXB38V100J	RESISTOR ARRAY	
R1538	EXB38V100J	RESISTOR ARRAY	
R1539	EXB38V100J	RESISTOR ARRAY	
R1540	EXB38V100J	RESISTOR ARRAY	
R1541	EXB38V100J	RESISTOR ARRAY	
R1542	EXB38V100J	RESISTOR ARRAY	
R1543	EXB38V100J	RESISTOR ARRAY	
R1544	EXB38V100J	RESISTOR ARRAY	
R1545	EXB38V100J	RESISTOR ARRAY	
R1546	EXB38V100J	RESISTOR ARRAY	
R1547	EXB38V100J	RESISTOR ARRAY	
R1548	EXB38V100J	RESISTOR ARRAY	
R1549	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1550	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1551	ERJ3GEYJ272	M 2.7KOHMJ,J,1/16W	
R1552	ERJ3GEYJ272	M 2.7KOHMJ,J,1/16W	
R1553	EXB38V220J	RESISTOR ARRAY	
R1554	EXB38V100J	RESISTOR ARRAY	
R1555	EXB38V100J	RESISTOR ARRAY	
R1556	ERJ6GEYJ270	M 27 OHM,J,1/10W	
R1557	ERJ6ENF1001	M 1KOHM, 1/10W	
R1558	EXB38V220J	RESISTOR ARRAY	
R1559	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1560	ERJ6ENF1001	M 1KOHM, 1/10W	
R1561	EXB38V220J	RESISTOR ARRAY	
R1562	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1563	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1564	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1565	EXB38V220J	RESISTOR ARRAY	
R1566	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1567	EXB38V220J	RESISTOR ARRAY	
R1568	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1569	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1570	EXB38V220J	RESISTOR ARRAY	
R1572	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1573	EXB38V220J	RESISTOR ARRAY	
R1574	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1575	EXB38V220J	RESISTOR ARRAY	
R1576	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R1577	EXB38V220J	RESISTOR ARRAY	
R1578	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1579	ERJ6GEYJ220	M 22 OHM,J,1/10W	
R1580	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1583	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1584	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1585	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1586	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1589	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1590	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1591	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1593	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1597	EXB38V220J	RESISTOR ARRAY	
R1598	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1600	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1601	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1606	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1607	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1608	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1609	EXB38V100J	RESISTOR ARRAY	
R1610	EXB38V100J	RESISTOR ARRAY	
R1611	EXB38V100J	RESISTOR ARRAY	
R1612	EXB38V100J	RESISTOR ARRAY	
R1613	EXB38V100J	RESISTOR ARRAY	
R1616	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1617	EXB38VR000	RESISTOR ARRAY	
R1618	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1619	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1620	ERJ6ENF1243	M 124KOHM, 1/10W	
R1621	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1622	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1623	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1624	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1625	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1626	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1627	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1628	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1629	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1630	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1631	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1632	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1633	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1634	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1635	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1636	EXB38V103J	RESISTOR ARRAY	
R1637	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1638	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1639	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1640	EXB38V220J	RESISTOR ARRAY	
R1641	EXB38V220J	RESISTOR ARRAY	
R1642	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1643	EXB38V101J	RESISTOR ARRAY	
R1644	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1645	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1646	ERJ3GEYJ272	M 2.7KOHMJ,J1/16W	
R1647	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1648	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1649	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1650	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1651	EXB38V103J	RESISTOR ARRAY	
R1652	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1653	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1654	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1656	EXB38V103J	RESISTOR ARRAY	
R1657	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1659	EXB38V103J	RESISTOR ARRAY	
R1660	EXB38V103J	RESISTOR ARRAY	
R1661	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1665	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1666	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1667	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1668	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1669	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1670	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1674	EXB38V103J	RESISTOR ARRAY	
R1675	EXB38V103J	RESISTOR ARRAY	
R1678	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1679	EXB38V103J	RESISTOR ARRAY	
R1680	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1681	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1682	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1683	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1684	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1687	EXB38V103J	RESISTOR ARRAY	
R1691	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1692	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1693	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1694	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1700	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1701	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1702	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1703	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1704	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1706	EXB38V103J	RESISTOR ARRAY	
R1707	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1708	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1709	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1710	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1711	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1712	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1713	EXB38V103J	RESISTOR ARRAY	
R1714	EXB38V103J	RESISTOR ARRAY	
R1715	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	
R1717	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1718	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1719	ERJ3GEYJ223	M 22K OHM,J,1/16W	
R1720	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1721	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1722	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	
R1724	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1725	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1726	EXB38V220J	RESISTOR ARRAY	
R1727	EXB38V220J	RESISTOR ARRAY	
R1728	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1729	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1730	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1731	EXB38V220J	RESISTOR ARRAY	
R1732	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1733	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1734	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1736	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1737	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1738	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1739	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1740	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1745	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1746	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1747	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1748	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1749	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1750	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1751	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1752	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1754	EXB38V220J	RESISTOR ARRAY	
R1755	EXB38V220J	RESISTOR ARRAY	
R1756	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1758	EXB38V220J	RESISTOR ARRAY	
R1759	EXB38V220J	RESISTOR ARRAY	
R1760	EXB38V472J	RESISTOR ARRAY	
R1761	EXB38V472J	RESISTOR ARRAY	
R1762	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1763	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1764	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1765	EXB38V101J	RESISTOR ARRAY	
R1766	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1767	EXB38V104J	RESISTOR ARRAY	
R1768	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1769	EXB38V220J	RESISTOR ARRAY	
R1770	EXB38V220J	RESISTOR ARRAY	
R1771	EXB38V220J	RESISTOR ARRAY	
R1772	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1774	EXB38V220J	RESISTOR ARRAY	
R1775	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1776	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1777	EXB38V220J	RESISTOR ARRAY	
R1778	EXB38V220J	RESISTOR ARRAY	
R1779	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1780	EXB38V472J	RESISTOR ARRAY	
R1781	EXB38V472J	RESISTOR ARRAY	
R1782	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1783	EXB38V220J	RESISTOR ARRAY	
R1784	EXB38V220J	RESISTOR ARRAY	
R1785	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1790	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1791	EXB38V220J	RESISTOR ARRAY	
R1793	EXB38V472J	RESISTOR ARRAY	
R1795	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1796	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1797	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1798	ERJ6ENF1001	M 1KOHM, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1799	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1800	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1803	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1804	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1805	ERJ6ENF1001	M 1KOHM, 1/10W	
R1806	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1807	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1808	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1811	EXB38V220J	RESISTOR ARRAY	
R1815	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1816	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1817	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1818	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1819	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1820	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1821	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1822	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1823	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1824	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1825	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1826	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1827	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1828	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R1829	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1830	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1831	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1832	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1833	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1836	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1837	EXB38V220J	RESISTOR ARRAY	
R1838	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1839	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1840	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1841	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1842	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1843	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1844	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1845	EXB38V220J	RESISTOR ARRAY	
R1846	EXB38V220J	RESISTOR ARRAY	
R1847	EXB38V220J	RESISTOR ARRAY	
R1848	EXB38V220J	RESISTOR ARRAY	
R1849	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1850	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1851	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1852	EXB38V220J	RESISTOR ARRAY	
R1853	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1854	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1855	EXB38V220J	RESISTOR ARRAY	
R1856	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1857	EXB38V220J	RESISTOR ARRAY	
R1858	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1859	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1860	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1861	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R1862	EXB38V220J	RESISTOR ARRAY	
R1863	EXB38V220J	RESISTOR ARRAY	
R1864	EXB38V220J	RESISTOR ARRAY	
R1865	EXB38V220J	RESISTOR ARRAY	
R1866	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1867	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1868	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1869	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1870	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1871	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1872	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1873	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1874	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1876	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1877	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1878	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1881	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1882	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1883	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1884	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1885	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1886	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1887	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1888	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1889	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1890	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1891	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1892	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1893	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1894	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1895	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1896	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1897	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1898	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1899	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1900	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1901	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1902	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1903	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1904	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1905	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1906	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1907	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1908	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R1909	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1910	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1911	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1912	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1913	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1914	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1915	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1916	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1917	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1918	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1919	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1920	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1921	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1922	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1923	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1924	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1925	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1926	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1927	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1928	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1929	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1930	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1931	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1932	ERJ6GEYJ3R3	M 3.3OHM,J,1/10W	
R1933	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1934	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1935	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1936	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1937	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1938	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1939	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1940	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1941	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1942	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1943	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1944	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1945	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1946	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1947	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1948	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1949	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1950	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1951	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1952	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1953	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1954	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1955	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1956	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1957	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1958	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1959	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1960	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1961	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1962	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1963	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1964	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1965	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1966	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1967	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1968	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1969	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1970	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1971	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1972	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1973	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1974	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1975	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1976	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1977	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1978	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1979	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1980	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1981	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1982	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1983	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1984	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1985	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1986	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1987	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1988	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1989	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1990	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1991	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1992	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1994	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1995	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1996	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1997	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1998	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1999	ERJ3GEYJ153	M 15K OHM,J,1/16W	
R3001	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R3002	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R3003	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3004	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3005	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3006	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3007	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3008	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3009	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3010	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R3011	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R3012	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3013	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3014	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R3015	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R3016	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3017	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R3018	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R3019	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R3020	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R3021	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3022	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R3023	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3024	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3025	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3026	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3027	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3028	ERJ3GEYJ103	M 10K OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3029	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3030	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3031	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3032	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3033	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3034	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3035	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3036	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3037	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3038	EXB38V220J	RESISTOR ARRAY	
R3039	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R3040	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3041	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3042	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3043	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3044	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R3133	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3134	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3135	ERJ6ENF75R0	M 75 OHM, 1/10W	
R3174	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3175	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3176	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3184	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3185	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3186	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R3501	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3502	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R3503	ERJ6ENF1001	M 1KOHM, 1/10W	
R3504	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R3505	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R3506	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R3507	ERJ6ENF3302	M 33KOHM, 1/10W	
R3508	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R3509	ERJ6ENF1001	M 1KOHM, 1/10W	
R3510	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R3511	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R3512	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R3513	ERJ6ENF3302	M 33KOHM, 1/10W	
R3514	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3515	ERJ3GEYJ100	M 10 OHM,J,1/16W	
R3516	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3517	ERJ6ENF5601	M 5.6KOHM, 1/10W	
R3518	ERJ6ENF1001	M 1KOHM, 1/10W	
R3519	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R3520	ERJ6ENF2701	M 2.7KOHM, 1/10W	
R3521	ERJ6ENF6801	M 6.8KOHM, 1/10W	
R3522	ERJ6ENF3302	M 33KOHM, 1/10W	
R3523	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3524	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3525	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3526	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3527	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3528	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3529	ERJ3GEYJ331	M 330 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R3530	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R3531	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R3701	ERJ6GEYJ470	M 47 OHM,J,1/10W	
R3702	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R9231	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R9705	ERJ6GEYJ100	M 10 OHM,J,1/10W	
[CAPACITORS]			
C1001	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1002	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1003	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1004	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1005	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1006	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1007	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1008	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1010	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1011	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1012	EEVHB0J330	E 33UF, 6.3V	
C1013	EEVHB0J330	E 33UF, 6.3V	
C1014	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1015	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1016	EEVHB1C220	E 10UF, 16V	
C1017	EEVHB1C220	E 10UF, 16V	
C1018	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1020	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1021	EEVHB1C101	E 100UF, 16V	
C1022	ECJ2XC1H102J	C 1000PF, J, 50V	
C1023	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1024	ECJ1XF1A105Z	C 1UF, 10V	
C1025	ECJ2XB1H473K	C 0.047UF, K, 50V	
C1026	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1027	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1028	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1029	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1030	ECJ1XF1A105Z	C 1UF, 10V	
C1032	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1033	EEVHB1A330	E 33UF, 10V	
C1034	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1036	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1037	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1039	EEVHB1C101	E 100UF, 16V	
C1040	ECJ1XF1A105Z	C 1UF, 10V	
C1041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1042	EEVHB1A330	E 33UF, 10V	
C1043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1044	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1045	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1046	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1047	EEVHB0J330	E 33UF, 6.3V	
C1048	ECJ1XF1A105Z	C 1UF, 10V	
C1049	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1051	ECJ1XF1A105Z	C 1UF, 10V	
C1052	ECJ1XF1A105Z	C 1UF, 10V	
C1053	ECJ1XC1H470J	C 47PF, J, 50V	
C1054	ECJ1XC1H080D	C 8PF, D, 50V	
C1055	ECJ1XF1A105Z	C 1UF, 10V	
C1056	ECJ1XF1A105Z	C 1UF, 10V	
C1057	ECJ1XF1A105Z	C 1UF, 10V	
C1058	ECJ1XF1A105Z	C 1UF, 10V	
C1059	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1060	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1061	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1062	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1063	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1064	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1065	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1066	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1067	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1068	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1069	ECJ1XB1H472K	C 4700PF, K, 50V	
C1070	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1071	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1072	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1073	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1074	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1075	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1076	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1077	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1078	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1079	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1080	ECJ1XC1H330J	C 33PF, J, 50V	
C1081	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1082	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1083	ECJ1XF1A105Z	C 1UF, 10V	
C1084	ECJ1XF1A105Z	C 1UF, 10V	
C1085	ECJ1XC1H101J	C 100PF, J, 50V	
C1086	ECJ1XF1A105Z	C 1UF, 10V	
C1087	ECJ1XC1H680J	C 68PF, J, 50V	
C1088	ECJ1XF1A105Z	C 1UF, 10V	
C1089	ECJ1XC1H330J	C 33PF, J, 50V	
C1090	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1091	ECJ1XF1A105Z	C 1UF, 10V	
C1092	ECJ1XF1A105Z	C 1UF, 10V	
C1093	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1094	EEVHB0J330	E 33UF, 6.3V	
C1095	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1096	EEVHB0J330	E 33UF, 6.3V	
C1097	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1098	EEVHB0J330	E 33UF, 6.3V	
C1099	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1100	EEVHB0J330	E 33UF, 6.3V	
C1101	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1102	EEVHB0J330	E 33UF, 6.3V	
C1103	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1104	EEVHB0J330	E 33UF, 6.3V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1105	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1106	EEVHB0J330	E 33UF, 6.3V	
C1107	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1108	EEVHB0J330	E 33UF, 6.3V	
C1109	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1110	EEVHB0J330	E 33UF, 6.3V	
C1111	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1112	ECJ1XF1A105Z	C 1UF, 10V	
C1113	ECJ1XF1A105Z	C 1UF, 10V	
C1114	ECJ1XF1A105Z	C 1UF, 10V	
C1115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1116	ECJ2XB1H103K	C 0.01UF, K, 50V	
C1117	EEVHB1A221	E 220UF, 10V	
C1118	EEVHB1A221	E 220UF, 10V	
C1119	EEVHB1A221	E 220UF, 10V	
C1120	ECJ1XF1A105Z	C 1UF, 10V	
C1121	EEVHP1A100	E 10UF, 10V	
C1122	EEVHP1A100	E 10UF, 10V	
C1123	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1124	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1125	ECJ1XF1A105Z	C 1UF, 10V	
C1126	EEVHP1A100	E 10UF, 10V	
C1127	EEVHP1A100	E 10UF, 10V	
C1128	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1129	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1130	EEVHP1A100	E 10UF, 10V	
C1131	EEVHP1A100	E 10UF, 10V	
C1132	EEVHP1A100	E 10UF, 10V	
C1133	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1134	EEVHP1A100	E 10UF, 10V	
C1135	EEVHP1A100	E 10UF, 10V	
C1136	EEVHB1A330	E 33UF, 10V	
C1137	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1138	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1139	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1140	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1141	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1142	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1143	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1144	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1145	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1146	ECJ1XF1A105Z	C 1UF, 10V	
C1147	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1148	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1149	ECJ1XF1A105Z	C 1UF, 10V	
C1150	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1151	ECUX1H473Z FV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1152	ECUX1H473Z FV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1153	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1154	ECJ1XB1H102K	C 1000PF, K, 50V	
C1155	ECUX1H473Z FV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1156	ECJ1XB1H102K	C 1000PF, K, 50V	
C1157	ECUX1H473Z FV	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1158	ECUX1H473Z FV	C 0.047UF, Z, 50V	ECJ1XF1H473Z

Ref. No.	Part No.	Part Name & Description	Remarks
C1159	ECUX1H473ZFB	C 0.047UF, Z, 50V	ECJ1XF1H473Z
C1160	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1161	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1162	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1163	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1164	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1165	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1166	ECJ1XF1A105Z	C 1UF, 10V	
C1167	ECUX1H392KBV	C 3900PF, 50V	
C1168	ECJ1XB1C393K	C 0.039UF, 16V	
C1170	ECJ1XC1H151J	C 150PF, 50V	
C1171	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1172	ECJ1XF1C474Z	C 0.47UF, 16V	
C1173	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1174	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1175	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1176	ECJ1XB1C103K	C 0.01UF, K, 16V	
C1177	ECJ1XF1A105Z	C 1UF, 10V	
C1178	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1179	ECJ1XF1A105Z	C 1UF, 10V	
C1180	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1181	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1182	ECJ1XF1A105Z	C 1UF, 10V	
C1183	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1184	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1185	ECJ1XC1H331J	C 330PF, 50V	
C1186	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1187	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1188	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1189	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1190	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1191	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1192	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1193	ECJ1XB1C104K	C 0.1UF, K, 16V	
C1194	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1195	ECJ1XB1H222K	C 2200PF, K, 50V	
C1196	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1197	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1198	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1199	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1200	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1201	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1202	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1203	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1204	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1205	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1206	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1207	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1208	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1209	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1210	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1211	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1212	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1213	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1214	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1215	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1216	EEVHB0J330	E 33UF, 6.3V	
C1217	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1218	EEVHB0J330	E 33UF, 6.3V	
C1219	EEFCD0J470R	E 47UF, 6.3V	
C1220	ECJ1XB1C104K	C 0.1UF, K, 16V	
C1221	ECJ1XF1A105Z	C 1UF, 10V	
C1222	ECJ1XB1H222K	C 2200PF, K, 50V	
C1223	EEVHB0J470	E 47UF, 6.3V	
C1224	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1225	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1226	EEVHB0J470	E 47UF, 6.3V	
C1227	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1228	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1229	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1230	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1231	ECJ2XC1H101J	C 100PF, J, 50V	
C1232	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1233	ECJ2XC1H101J	C 100PF, J, 50V	
C1234	EEVHB1C470	E 47UF, 16V	
C1235	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1236	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1237	ECJ1XC1H220J	C 22PF, J, 50V	
C1238	ECJ1XC1H471J	C 470PF, 50V	
C1239	ECJ1XC1H471J	C 470PF, 50V	
C1240	ECJ1XC1H220J	C 22PF, J, 50V	
C1241	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1242	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1243	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1244	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1245	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1246	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1247	ECJ1XC1H220J	C 22PF, J, 50V	
C1248	ECJ1XC1H220J	C 22PF, J, 50V	
C1249	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1250	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1251	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1252	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1253	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1254	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1255	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1257	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1258	EEVHB1E330	E 33UF, 25V	
C1259	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1260	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1261	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1263	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1264	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1265	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1266	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1267	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P

Ref. No.	Part No.	Part Name & Description	Remarks
C1268	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1269	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1272	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1273	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1274	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1275	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1276	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1277	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1278	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1279	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1280	EEVHB1E330	E 33UF, 25V	
C1281	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1282	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1283	EEVHB1E330	E 33UF, 25V	
C1284	ECJ1XC1H221J	C 220PF, 50V	
C1285	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1287	EEVHB1E330	E 33UF, 25V	
C1289	ECJ1XC1H221J	C 220PF, 50V	
C1290	F1L0J1070004	CAPACITOR	
C1291	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1292	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1293	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1294	EEVHB1E330	E 33UF, 25V	
C1295	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1296	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1297	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1298	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1299	EEVHB1E330	E 33UF, 25V	
C1300	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1301	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1302	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1303	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1304	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1305	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1306	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1307	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1308	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1309	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1310	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1312	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1313	EEVHB0J470	E 47UF, 6.3V	
C1314	EEVHB0J470	E 47UF, 6.3V	
C1316	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1317	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1318	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1319	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1320	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1321	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1322	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1323	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1324	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1325	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1326	ECJ2XB1E104K	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1327	EEVHB0J470	E 47UF, 6.3V	
C1328	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1329	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1330	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1331	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1332	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1333	ECJ2XB1E104K	C 0.1UF, Z, 25V	
C1334	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1335	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1336	ECJ2XF1H104Z	C 0.1UF, Z, 50V	
C1337	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C1338	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1339	EEVHB1A330	E 33UF, 10V	
C1340	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1341	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1342	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1343	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1344	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1345	ECJ1XB1C473K	C 0.047UF, K, 16V	
C1346	ECJ1XB1C473K	C 0.047UF, K, 16V	
C1347	ECJ1XB1C473K	C 0.047UF, K, 16V	
C1348	ECJ1XF1A105Z	C 1UF, 10V	
C1349	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1350	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1351	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1352	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1353	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1354	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1355	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1356	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1357	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1358	ECJ2XC1H471J	C 470PF, J, 50V	
C1359	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1360	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1361	ECJ1XC1H220J	C 22PF, J, 50V	
C1362	ECJ1XC1H220J	C 22PF, J, 50V	
C1363	ECJ1XF1A105Z	C 1UF, 10V	
C1364	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1365	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1366	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1367	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1370	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1371	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1372	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1373	ECJ1XC1H101J	C 100PF, J, 50V	
C1374	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1375	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1376	EEVHB0G101	E 100UF, 4V	
C1377	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1379	EEVHB0J470	E 47UF, 6.3V	
C1380	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1381	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1382	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1383	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1384	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1385	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1386	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1387	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1388	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1389	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1390	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1391	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1392	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1393	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1394	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1395	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1396	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1397	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1398	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1399	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1400	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1401	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1402	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1403	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1404	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1405	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1406	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1408	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1409	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1410	ECJ1XC1H101J	C 100PF, J, 50V	
C1412	EEFCD0J470R	E 47UF, 6.3V	
C1413	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1414	EEFCD0J470R	E 47UF, 6.3V	
C1415	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1416	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1417	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1418	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1419	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1420	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1421	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1422	EEVHB0J470	E 47UF, 6.3V	
C1423	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1425	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1426	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1427	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1428	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1429	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1430	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1431	EEVHB1E4R7	E 4.7UF, 25V	
C1432	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1433	EEVHB1E4R7	E 4.7UF, 25V	
C1435	EEVHB1A330	E 33UF, 10V	
C1436	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1437	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1438	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1439	ECJ1XC1H150J	C 15PF, J, 50V	
C1440	ECJ1XC1H150J	C 15PF, J, 50V	
C1441	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P

Ref. No.	Part No.	Part Name & Description	Remarks
C1442	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1443	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1444	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1445	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1446	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1447	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1448	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1449	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1450	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1451	EEVHB1A330	E 33UF, 10V	
C1452	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1453	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1454	EEVHB0J101	E 100UF, 6.3V	EEVHB0J101P
C1455	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1456	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1457	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1458	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1459	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1460	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1461	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1462	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1463	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1464	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1465	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1466	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1467	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1468	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1469	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1470	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1471	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1472	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1473	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1474	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1475	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1476	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1477	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1478	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1479	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1480	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1481	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1482	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1483	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1484	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1485	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1486	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1487	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1488	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1489	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1490	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1491	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1492	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1493	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1494	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1495	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1496	ECJ1XF1A105Z	C 1UF, 10V	
C1497	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1498	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1499	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1500	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1501	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1502	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1503	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1504	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1505	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1506	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1507	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1508	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1509	EEVHB1E4R7	E 4.7UF, 25V	
C1510	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1511	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1512	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1513	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1514	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1515	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1516	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1517	EEVHB1E330	E 33UF, 25V	
C1518	EEVHB1E330	E 33UF, 25V	
C1519	EEVHB1E330	E 33UF, 25V	
C1520	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1521	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1522	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1523	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1524	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1525	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1526	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1527	ECJ1XF1A105Z	C 1UF, 10V	
C1528	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1530	ECJ1XF1H103Z	C 0.01UF, Z, 50V	
C1531	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1539	ECJ1XC1H121J	C 120PF, Z, 16V	
C1540	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1541	EEVHB1E330	E 33UF, 25V	
C1542	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1543	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1544	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C1547	ECJ2XF1C105Z	C 1UF, Z, 16V	
C1548	ECJ2XF1C105Z	C 1UF, Z, 16V	
C3001	ECJ1XB1C103K	C 0.01UF, K, 16V	
C3002	EEVHB0J330	E 33UF, 6.3V	
C3003	ECJ1XB1C103K	C 0.01UF, K, 16V	
C3004	EEVHB0J330	E 33UF, 6.3V	
C3005	ECJ1XB1C103K	C 0.01UF, K, 16V	
C3006	EEVHB0J330	E 33UF, 6.3V	
C3007	ECJ1XF1A105Z	C 1UF, 10V	
C3008	EEVHB0J470	E 47UF, 6.3V	
C3009	EEVHB0J470	E 47UF, 6.3V	
C3010	ECJ2XB1H103K	C 0.01UF, K, 50V	
C3117	ECA0JHG221	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C3118	ECA0JHG221	CAPACITOR	
C3119	ECA0JHG221	CAPACITOR	
C3120	ECJ1XF1A105Z	C 1UF, 10V	
C3128	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3129	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3133	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3501	EEVHB0J470	E 47UF, 6.3V	
C3502	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C3701	EEVHB0J470R	E 47 UF, 6.3V	
C3702	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
[OTHERS]			
A1	K1MN30B00087	30P CONNECTOR	
A2	K1MN30B00087	30P CONNECTOR	
A3	K1MN30B00087	30P CONNECTOR	
A4	TJSF43706	6P CONNECTOR	K1KA06B00096
A5	K1KA04B00007	4P CONNECTOR	
A6	K1KA13B00031	13P CONNECTOR	
A7	TJSF43703	3P CONNECTOR	K1KA03B00098
A8	TJSF43710	10P CONNECTOR	K1KA10B00126
A9	K1KA02B00051	2P CONNECTOR	
A10	K1KA02B00051	2P CONNECTOR	
A11	K1KA02B00051	2P CONNECTOR	
A12	K1KA02B00051	2P CONNECTOR	
A13	K1KA10A00317	10P CONNECTOR	
A14	K1KA07A00132	7P CONNECTOR	
A15	TJS6A8780	3P CONNECTOR	K1KA03B00006
A16	TJS6A8780	3P CONNECTOR	K1KA03B00006
A17	TJSF43703	3P CONNECTOR	K1KA03B00098
A18	TJS6A8780	3P CONNECTOR	K1KA03B00006
A19	TJS6A8780	3P CONNECTOR	K1KA03B00006
A20	TJSF43703	3P CONNECTOR	K1KA03B00098
A21	TJSF43704	4P CONNECTOR	K1KA04B00137
A22	K1MN50B00016	50P CONNECTOR	
A25	TJSF43709	CONNECTOR	K1KA09B00048
A28	K1KA04B00007	4P CONNECTOR	
J1	K1KA10B00121	10P CONNECTOR	
J2	K1KA07A00132	7P CONNECTOR	
R1	TJSF43703	3P CONNECTOR	K1KA03B00098
S1	TJSF43710	10P CONNECTOR	K1KA10B00126
F101	XBA2C100TB5L	FUSE	△K5Y103B00001
F102	XBA2C100TB5L	FUSE	△K5Y103B00001
JK1001	K1CB205B0001	S-VIDEO TERMINAL	
JK1002	K2HA102A0019	AUDIO IN TERMINAL	
JK1003	K2HC206B0003	RGB AUDIO IN/OUT TERMINAL	
JK1004	TJSF45015	RGB1 IN TERMINAL	K1FB115B0058
JK1005	TJSF45015	RGB2 IN TERMINAL	K1FB115B0058
JK1006	K1FB124B0015	DVI-D IN TERMINAL	
JK1007	K1FB109B0058	RS232C IN TERMINAL	
JK1008	K1FA104B0015	USB IN TERMINAL	
JK3001	K1QBB5BA0001	RGB IN(BNC) TERMINAL	
JK3002	K1FB109A0022	EXTERNAL CONTROL TERMINAL	
JS1001	ERJ6GEY0R00	M 0 OHM,J,1/10W	

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Ref. No.	Part No.	Part Name & Description	Remarks
JS1002	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1003	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1004	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1005	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1006	ERJ3GEY0R00	M 0 OHM, 1/16W	
JS1007	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1008	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1009	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1013	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1014	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1015	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1016	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1017	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1018	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1019	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1020	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1021	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1022	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1023	ERJ6GEY0R00	M 0 OHM,J,1/10W	
RM1001	B3RAD0000038	REMOTE CONTROL RECICVER	
RM3701	B3RAD0000036	REMOTE CONTROL RECICVER	
S3501	EVQPLHA15	SWITCH	
S3502	EVQPLHA15	SWITCH	
S3503	EVQPLHA15	SWITCH	
S3504	EVQPLHA15	SWITCH	
S3505	EVQPLHA15	SWITCH	
S3506	EVQPLHA15	SWITCH	
S3507	EVQPLHA15	SWITCH	
S3508	EVQPLHA15	SWITCH	
S3509	EVQPLHA15	SWITCH	
S3510	EVQPLHA15	SWITCH	
S3511	EVQPLHA15	SWITCH	
S3512	EVQPLHA15	SWITCH	
S3513	EVQPLHA15	SWITCH	
S3514	EVQPLHA15	SWITCH	
S3515	EVQPLHA15	SWITCH	
X1001	TSSA148	CRYSTAL	H0J202500002
X1002	H1A2005B0014	CRYSTAL	
X1003	H0J240500006	CRYSTAL	
X1004	H0J600400007	CRYSTAL	
X1005	H1A1306B0001	CRYSTAL	
X1006	H1A6505B0003	CRYSTAL	
X1007	H0J983400001	CRYSTAL	
X1008	TSSA124	CRYSTAL	H0J120500007
Z101	ERZV10D471	VARISTOR	
Z9601	G4F3E0000005	IGNITER	
	TNPA2546	CIRCUIT BORAD S	
	TNPA2548	CIRCUIT BOARD K	
	TNPA2591	CIRCUIT BOARD Z	
	TNPA2623	CIRCUIT BOARD R	
	TNPA2624	CIRCUIT BOARD J	

Ref. No.	Part No.	Part Name & Description	Remarks
	TXANP01VJN1	POWER UNIT ASSY	
	TXANP04VJN1	CIRCUIT BOARD A	
	TXANP05VJN1	CIRCUIT BOARD WL	PT-L780NTU/E

16.2. WL-P.C.Board (PT-L780NTU/E only)

Ref. No.	Part No.	Part Name & Description	Remarks
[INTEGRATED CIRCUIT]			
IC2001	C0CBCBF00001	I.C	
IC2002	C1ZBZ0001776	I.C	
IC2003	C0CBCBF00001	I.C	
IC2005	TVRJ754-1	I.C	
IC2007	C0JBAZ001633	I.C	
IC2009	TVRJ788	I.C	
IC2010	C3ABPJ000035	I.C	
IC2011	C2DBYY000021	I.C	
IC2012	C3ABPJ000035	I.C	
IC2013	TC7SH08F	I.C	
IC2014	C0DBZHE00011	I.C	
IC2015	C0CBCBE00001	I.C	
IC2016	C0DBFFD00005	I.C	
IC2018	C0DBZHE00011	I.C	
IC2021	T74VHCT541FT	I.C	
IC2022	T74VHCT541FT	I.C	
IC2023	T74VHCT541FT	I.C	
IC2024	T74VHCT541FT	I.C	
IC2025	C0JBAZ000788	I.C	
IC2026	C0JBAZ000788	I.C	
IC2027	T74VHCT541FT	I.C	
IC2028	TC74LCX541FT	I.C	C0JBAZ000808
IC2029	TC74LCX541FT	I.C	C0JBAZ000808
IC2030	TC7WU04FUEL	I.C	C0JBAZ000529
IC2038	TC7SH08F	I.C	
IC2039	C0JBAE000126	I.C	
IC2041	MN66816BHL	I.C	
IC2043	C0CBCBF00001	I.C	
IC2044	PQ07VZ012ZP	I.C	C0DBEZG00004
[TRANSISTORS]			
Q2005	B1DHCB000004	TRANSISTOR	
[DIODES]			
D2001	LNJ208R8ARA	LED	
D2002	LNJ208R8ARA	LED	
D2003	LNJ208R8ARA	LED	
D2004	LNJ308G8TRA	LED	
[COILS]			

Ref. No.	Part No.	Part Name & Description	Remarks
L2001	TLTAZ100K	PEAKING COIL	G1C100KA0002
L2004	ELJFA6R8JB	CHIP COIL	
L2006	J0JBD0000007	COIL	
L2007	J0JBD0000007	COIL	
L2008	J0JBD0000007	COIL	
L2009	J0JBD0000007	COIL	
L2010	J0JBD0000007	COIL	
L2011	J0JBD0000007	COIL	
L2012	J0JBD0000007	COIL	
L2013	J0JBD0000007	COIL	
LC2001	EXCCET103U	EMI FILTER	
LC2002	EXCCET103U	EMI FILTER	
LC2003	EZASCE101M	CAPACITOR ARRAY	
LC2005	EXCCET103U	EMI FILTER	
LC2010	EXCCET103U	EMI FILTER	
[RESISTORS]			
R2001	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2002	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2004	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2005	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2006	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2007	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2008	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2009	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2010	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2011	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2012	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2013	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2014	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2015	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2016	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2017	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2018	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2019	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2020	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2021	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2022	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2023	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2024	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R2025	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2026	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2027	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R2028	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2030	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2031	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2032	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2033	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2034	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2047	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2048	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2049	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R2050	EXB38V220J	RESISTOR ARRAY	
R2051	EXB38V220J	RESISTOR ARRAY	
R2052	EXB38V220J	RESISTOR ARRAY	
R2053	EXB38V220J	RESISTOR ARRAY	
R2054	EXB38V220J	RESISTOR ARRAY	
R2055	EXB38V220J	RESISTOR ARRAY	
R2056	EXB38V220J	RESISTOR ARRAY	
R2057	EXB38V220J	RESISTOR ARRAY	
R2058	EXB38V220J	RESISTOR ARRAY	
R2059	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2060	EXB38V220J	RESISTOR ARRAY	
R2062	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2063	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2064	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2065	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2066	EXB38V220J	RESISTOR ARRAY	
R2068	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2069	EXB38V220J	RESISTOR ARRAY	
R2070	EXB38V220J	RESISTOR ARRAY	
R2071	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2072	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2073	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2075	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2076	EXB38V220J	RESISTOR ARRAY	
R2077	EXB38V220J	RESISTOR ARRAY	
R2078	EXB38V220J	RESISTOR ARRAY	
R2079	EXB38V220J	RESISTOR ARRAY	
R2080	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2081	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2082	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2083	EXB38V220J	RESISTOR ARRAY	
R2084	EXB38V220J	RESISTOR ARRAY	
R2085	EXB38V220J	RESISTOR ARRAY	
R2086	EXB38V220J	RESISTOR ARRAY	
R2087	EXB38V220J	RESISTOR ARRAY	
R2088	EXB38V103J	RESISTOR ARRAY	
R2089	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2090	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2091	EXB38V220J	RESISTOR ARRAY	
R2092	EXB38V103J	RESISTOR ARRAY	
R2093	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2094	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2095	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2096	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2097	EXB38V220J	RESISTOR ARRAY	
R2098	EXB38V220J	RESISTOR ARRAY	
R2099	EXB38V220J	RESISTOR ARRAY	
R2100	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2101	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2103	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2104	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2105	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2106	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2107	EXB38V220J	RESISTOR ARRAY	

Ref. No.	Part No.	Part Name & Description	Remarks
R2108	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2109	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2112	EXB38V220J	RESISTOR ARRAY	
R2113	EXB38V220J	RESISTOR ARRAY	
R2114	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2115	EXB38V220J	RESISTOR ARRAY	
R2116	EXB38V220J	RESISTOR ARRAY	
R2117	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R2118	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R2119	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2127	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2128	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2130	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2132	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2136	EXB38V220J	RESISTOR ARRAY	
R2137	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R2138	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2140	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R2144	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2148	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R2149	EXB38V103J	RESISTOR ARRAY	
R2150	EXB38V103J	RESISTOR ARRAY	
R2151	EXB38VR000	RESISTOR ARRAY	
R2152	EXB38V103J	RESISTOR ARRAY	
R2154	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2155	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2156	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2157	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2158	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2159	EXB38VR000	RESISTOR ARRAY	
R2160	EXB38VR000	RESISTOR ARRAY	
R2161	EXB38VR000	RESISTOR ARRAY	
R2162	EXB38VR000	RESISTOR ARRAY	
R2163	EXB38VR000	RESISTOR ARRAY	
R2164	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2165	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2166	EXB38VR000	RESISTOR ARRAY	
R2167	EXB38V103J	RESISTOR ARRAY	
R2168	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2169	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2171	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2172	ERJ3GEYJ680	M 68 OHM,J,1/16W	
R2173	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2175	EXB38V103J	RESISTOR ARRAY	
R2176	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2177	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2178	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2179	EXB38VR000	RESISTOR ARRAY	
R2180	EXB38VR000	RESISTOR ARRAY	
R2181	EXB38V103J	RESISTOR ARRAY	
R2182	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2183	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2184	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2185	ERJ3GEY0R00	M 0 OHM, 1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R2186	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2188	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2189	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2190	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2201	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2202	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2203	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2204	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2205	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2206	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R2207	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R2208	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R2209	ERJ3GEY0R00	M 0 OHM, 1/16W	
R2210	ERJ6ENF2001	M 2KOHM, 1/10W	
R2211	ERJ6ENF1201	M 1.2KOHM, 1/10W	
R2213	ERJ3GEYJ102	M 1K OHM,J,1/16W	
[CAPACITORS]			
C2002	EEVHB1A330	E 33UF, 10V	
C2003	EEFCD0J470R	CAPACITOR	
C2004	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2005	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2006	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2007	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2008	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2009	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2010	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2011	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2013	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2014	EEFCD0J470R	CAPACITOR	
C2015	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2018	EEFCD0J470R	CAPACITOR	
C2019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2020	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2021	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2023	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2024	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2025	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2027	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C2028	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2030	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2031	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2032	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2033	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2034	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2036	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2037	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2038	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2039	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2042	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2044	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2045	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2046	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2047	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2048	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2049	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2050	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2053	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2054	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2055	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2056	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2057	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2058	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2059	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2060	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2061	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2062	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2063	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2064	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2065	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2066	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2067	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2068	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2069	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2070	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2071	ECJ2XC1H471J	C 470PF, J, 50V	
C2072	ECJ2XC1H471J	C 470PF, J, 50V	
C2073	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2074	EEFCD0J470R	CAPACITOR	
C2075	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C2076	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C2078	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C2079	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C2082	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2084	ECJ1XC1H471J	C 470PF, 50V	
C2085	ECJ1XC1H471J	C 470PF, 50V	
C2090	EEVHB1A330	E 33UF, 10V	
C2091	EEVHB1A330	E 33UF, 10V	
C2092	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2093	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2094	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2095	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2096	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2098	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2099	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2100	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2101	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2102	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2113	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2114	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2116	ECJ1XC1H102J	C 1000PF, J, 50V	
C2117	EEVHB1A330	E 33UF, 10V	

Ref. No.	Part No.	Part Name & Description	Remarks
C2118	EEVHB1A330	E 33UF, 10V	
C2121	EEVHB1A330	E 33UF, 10V	
C2122	EEFCD0J470R	CAPACITOR	
C2124	ECJ3XF1C475Z	C 4.7UF, Z, 16V	
C2125	ECJ1XC1H220J	C 22PF, J, 50V	
C2126	ECJ1XC1H220J	C 22PF, J, 50V	
C2127	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2128	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2129	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2130	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2131	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2132	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2133	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2134	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2135	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2136	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2137	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2138	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2139	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2140	ECJ1XF1C104Z	C 0.1UF, Z, 16V	
C2142	EEVHB1A330	E 33UF, 10V	
C2143	EEFCD0J470R	CAPACITOR	
C2144	ECJ1XF1C334Z	C 0.33UF, Z, 16V	
[OTHERS]			
IC2005S	K3E020M00006	I.C SOCKET	
WL5	K1ZZ00001032	PC CARD SLOT UNIT	
WL7	K1NA09E00002	9P CONNECTOR	
WL8	K1MN50B00012	50P CONNECTOR	
X2001	H1A6605B0001	CRYSTAL	
X2002	H0J400500009	CRYSTAL	

17. Schematic Diagram for printing with A4 size

E

D

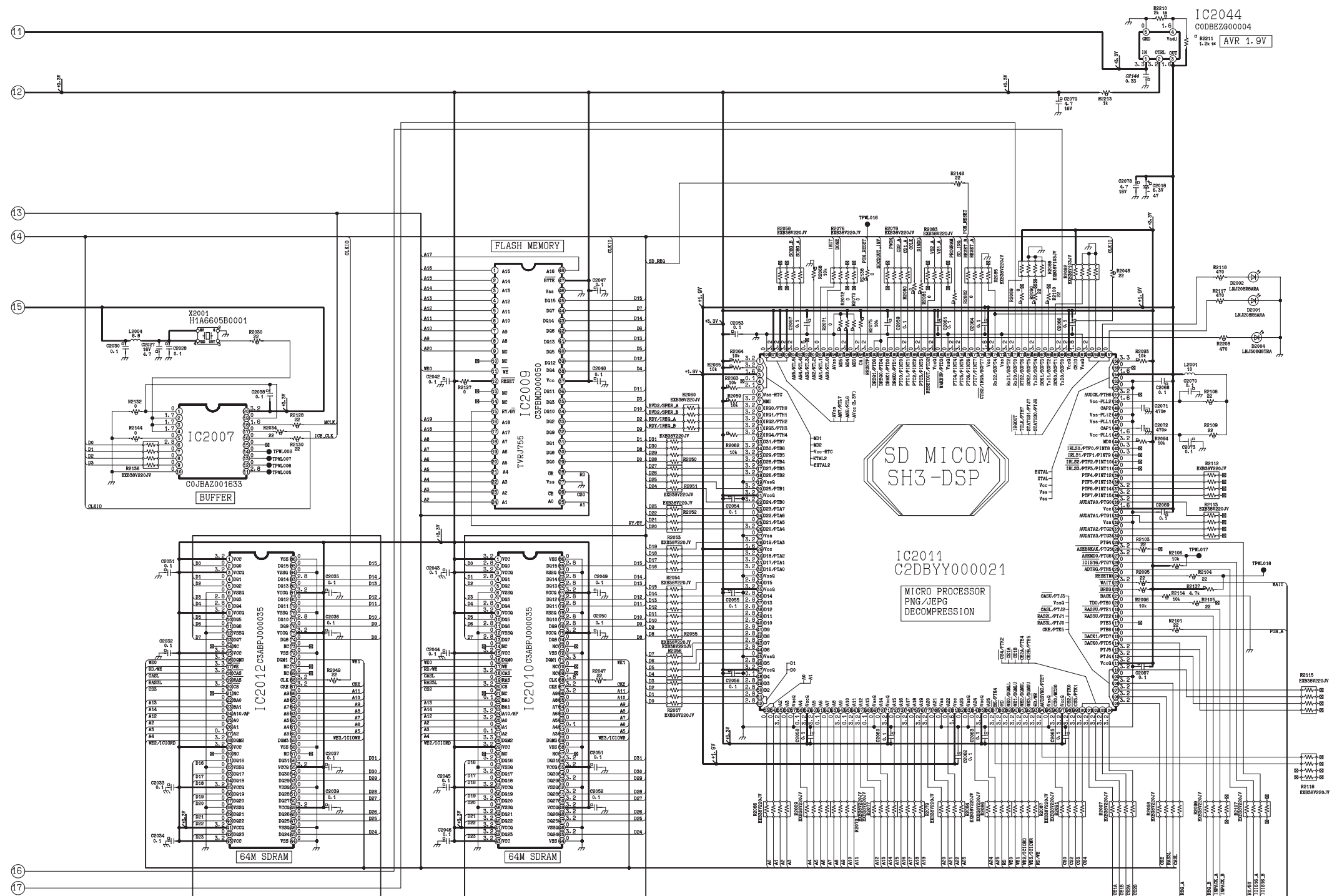
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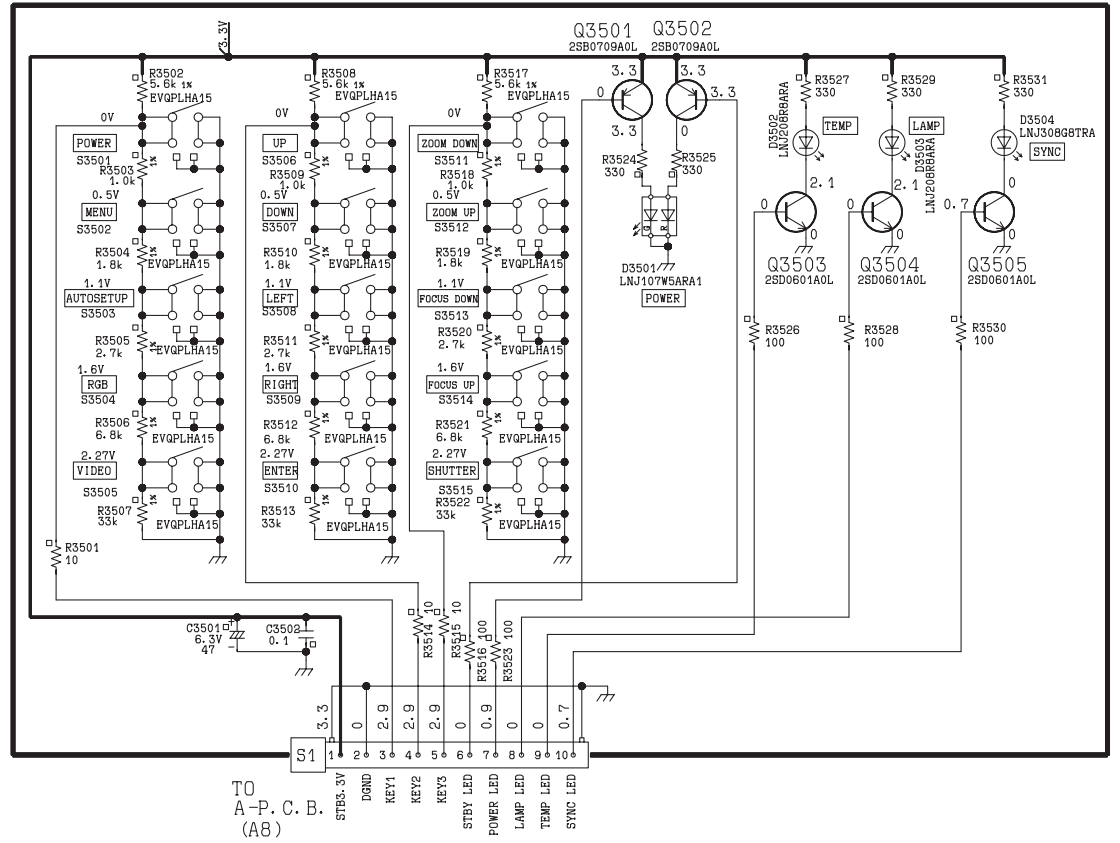
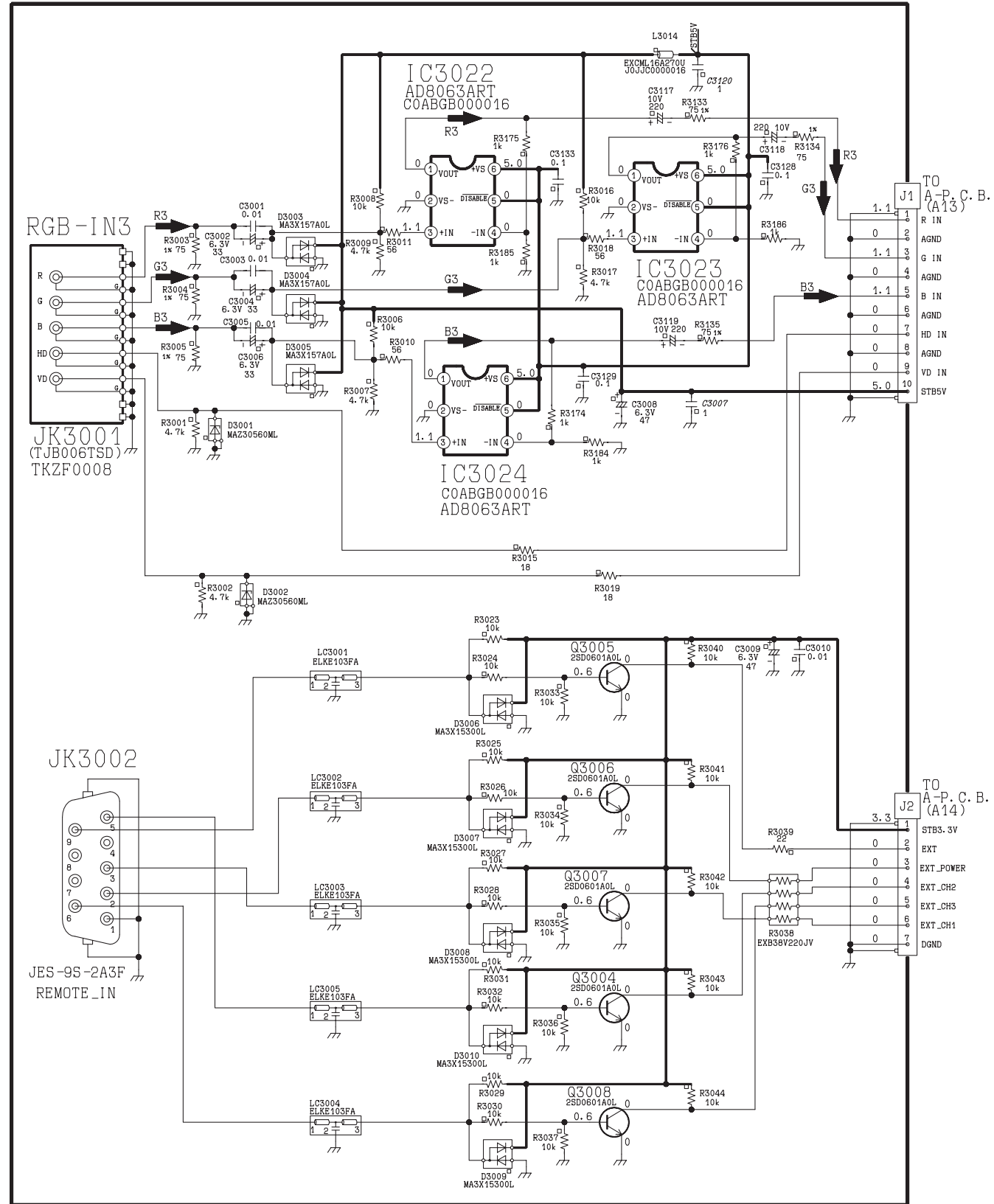
B

A









F

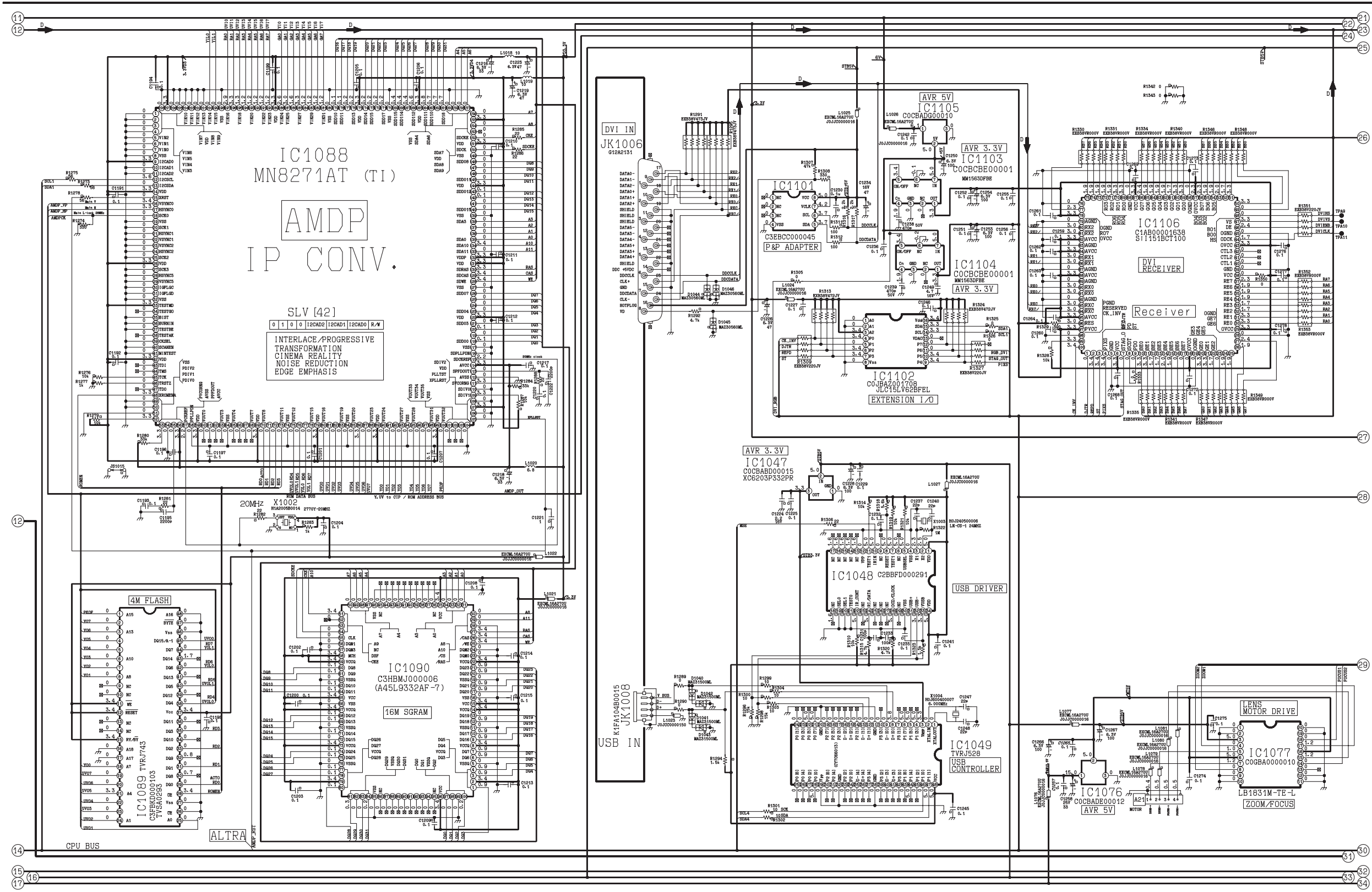
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C

B

A



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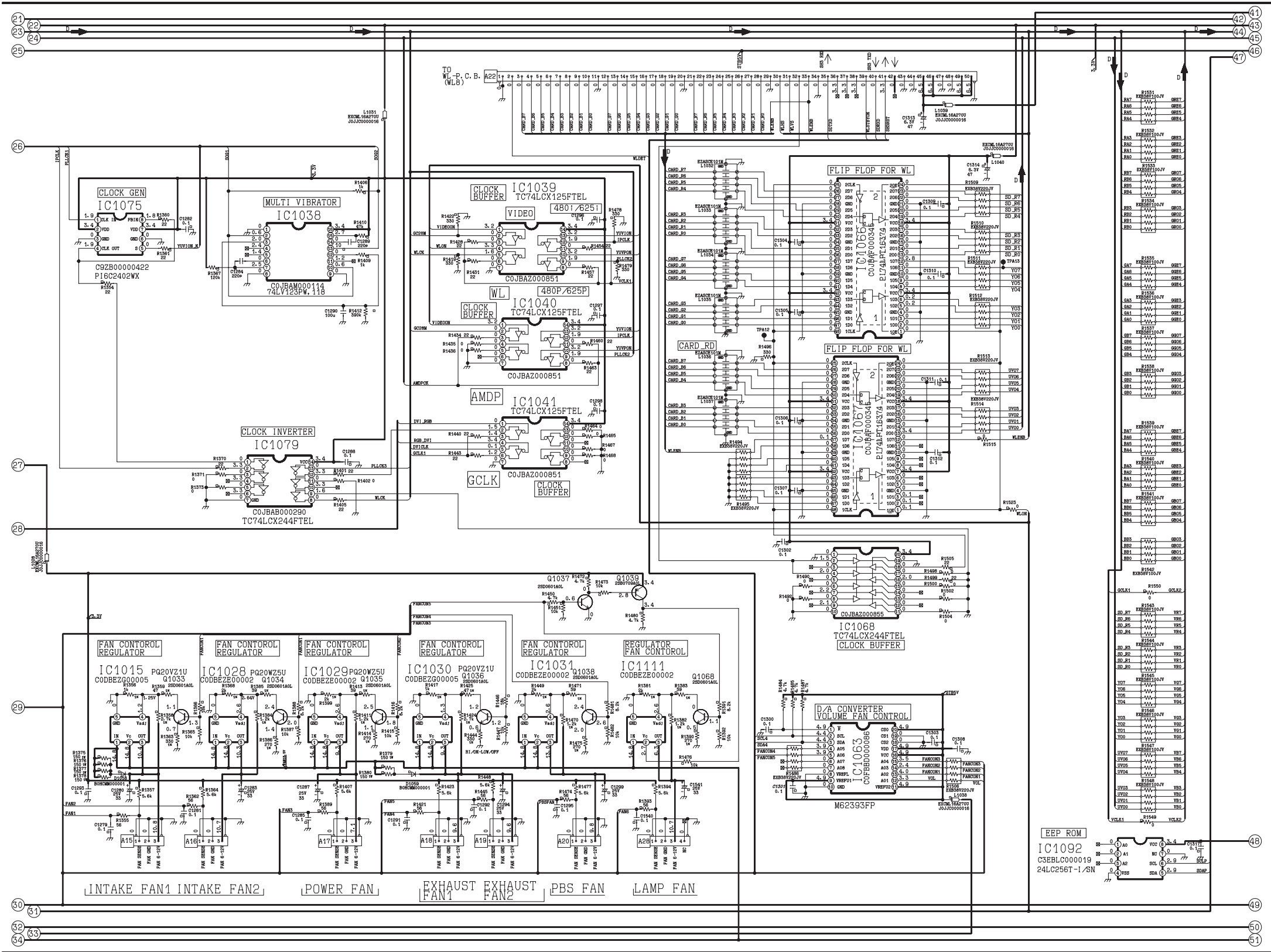
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A





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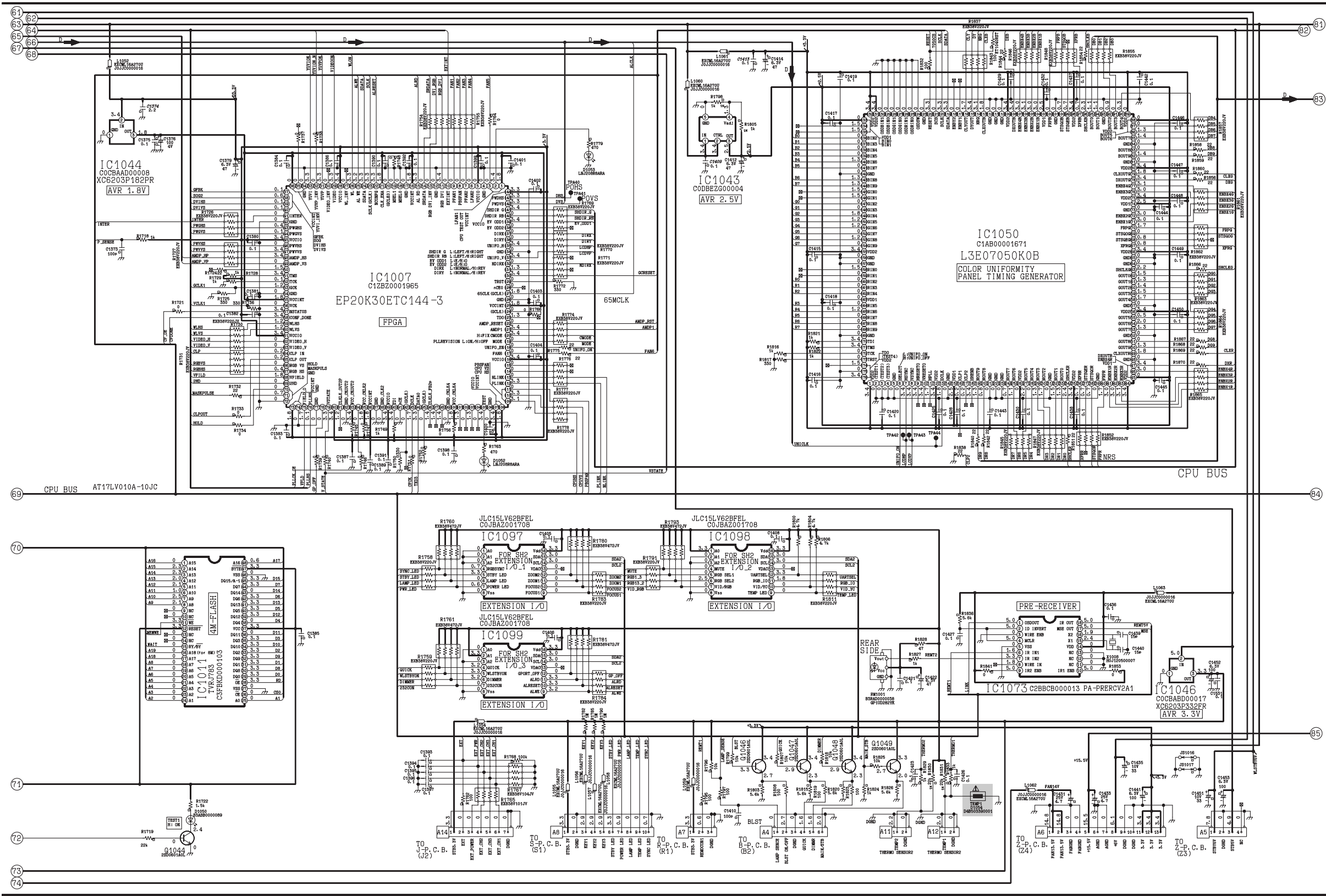
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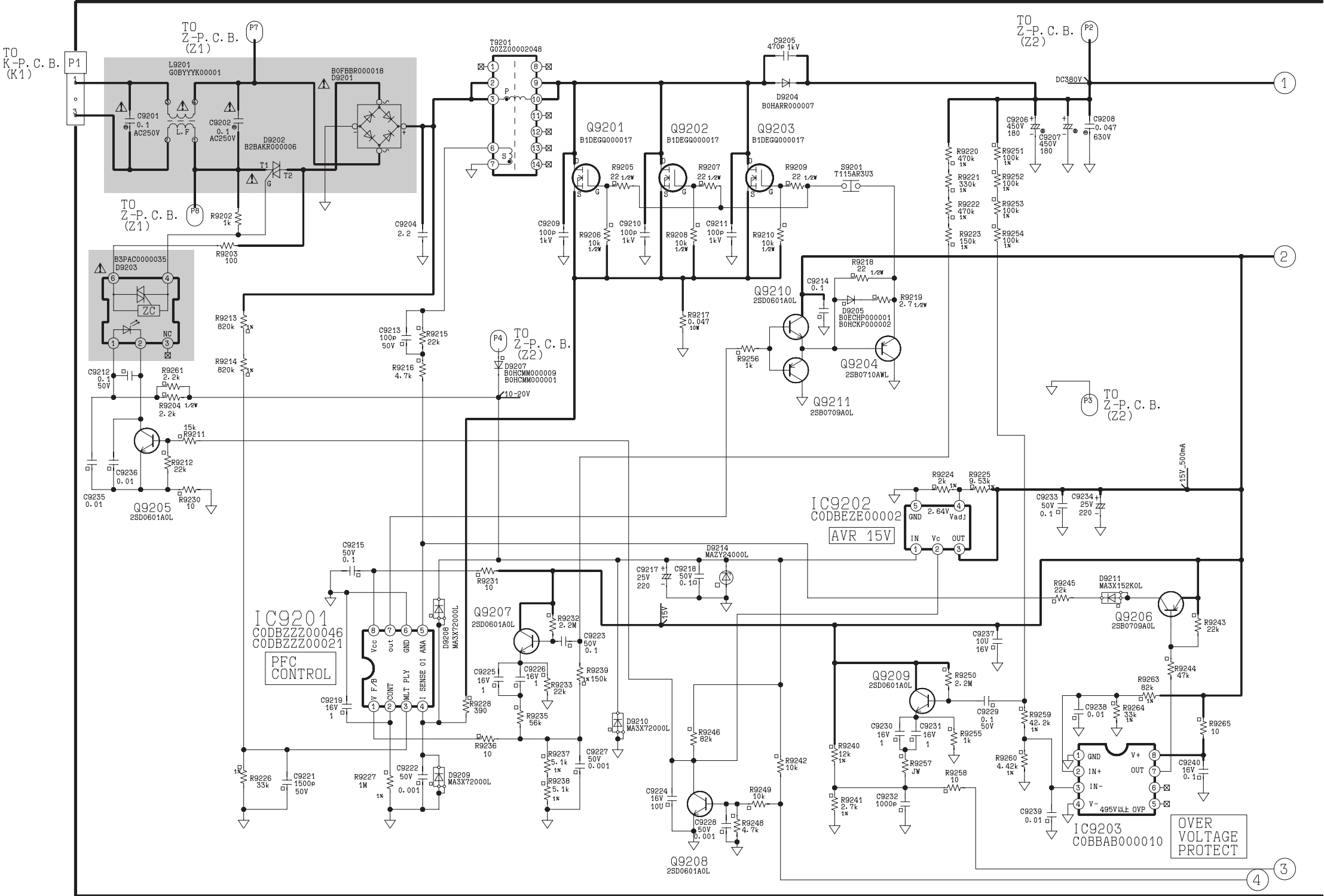
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A

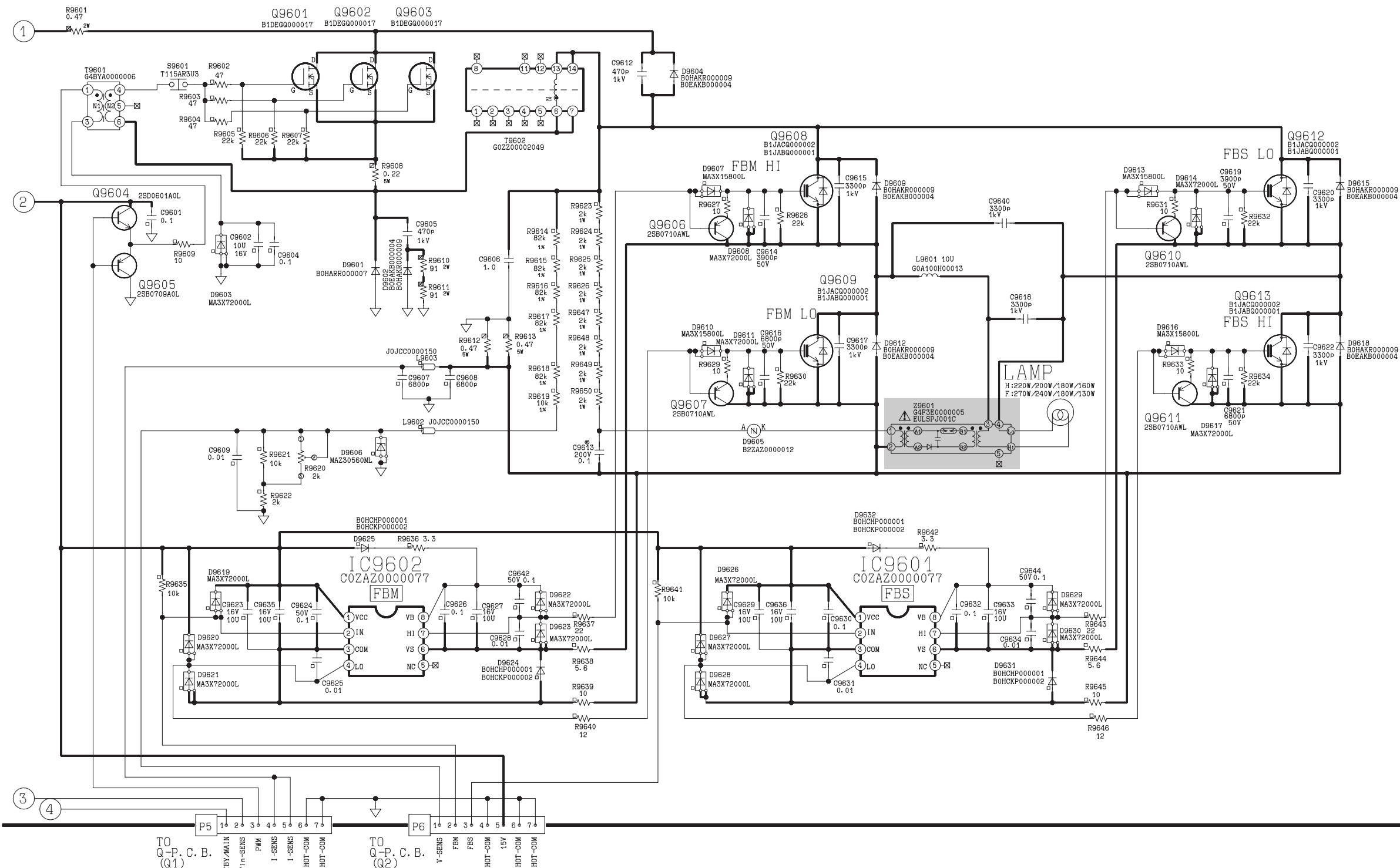




only supplied components IC9201-03, IC9601-02, Q9201-03, Q9205-06, Q9208, Q9601-03, Q9606-13, D9202-03, D9207, D9607-08, D9610-11, D9613-14, D9616-17, D9619-32, Z9601, R9231

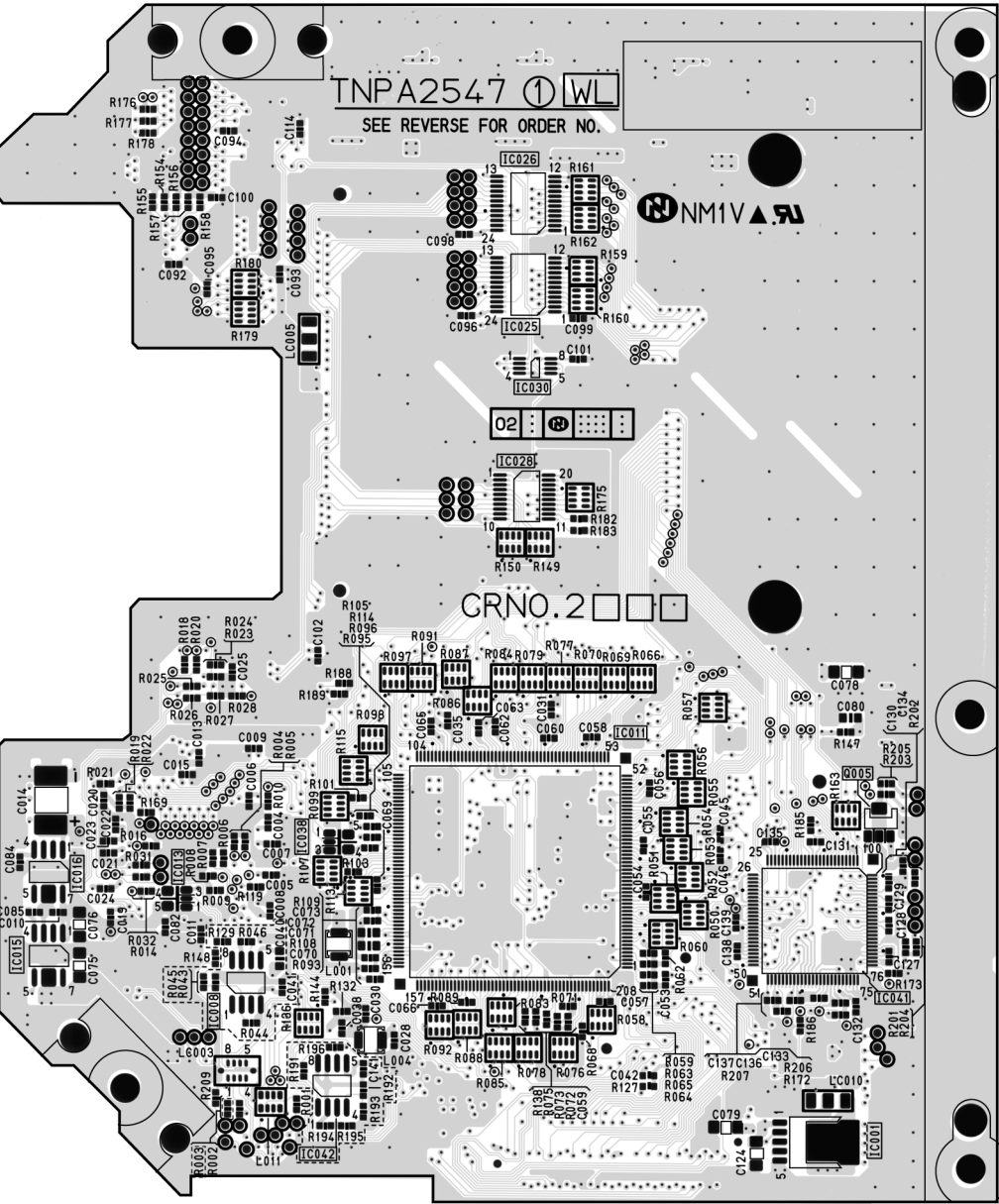


only supplied components IC9201-03, IC9601-02, Q9201-03, Q9205-06, Q9208, Q9601-03, Q9606-13, D9202-03, D9207, D9607-08, D9610-11, D9613-14, D9616-17, D9619-32, Z9601, R9231



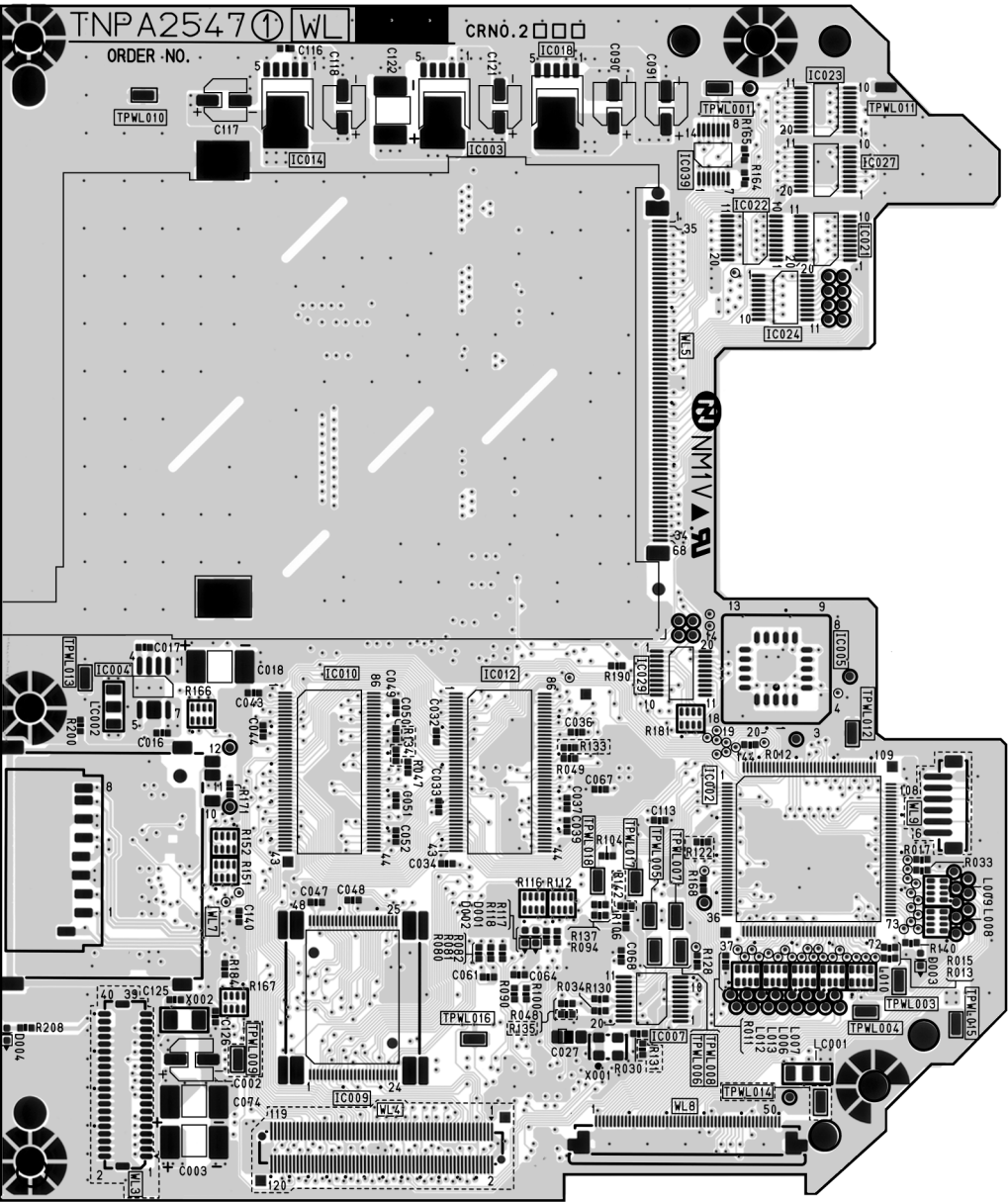
WL-P.C.Board (Foil Side)			
IC		TRANSISTOR	
IC2001	A-3	Q2005	B-4
IC2011	B-2		
IC2013	B-1		
IC2015	A-1		
IC2016	B-1		
IC2025	D-2		
IC2026	D-2		
IC2028	C-2		
IC2030	C-2		
IC2038	B-2		
IC2041	B-3		

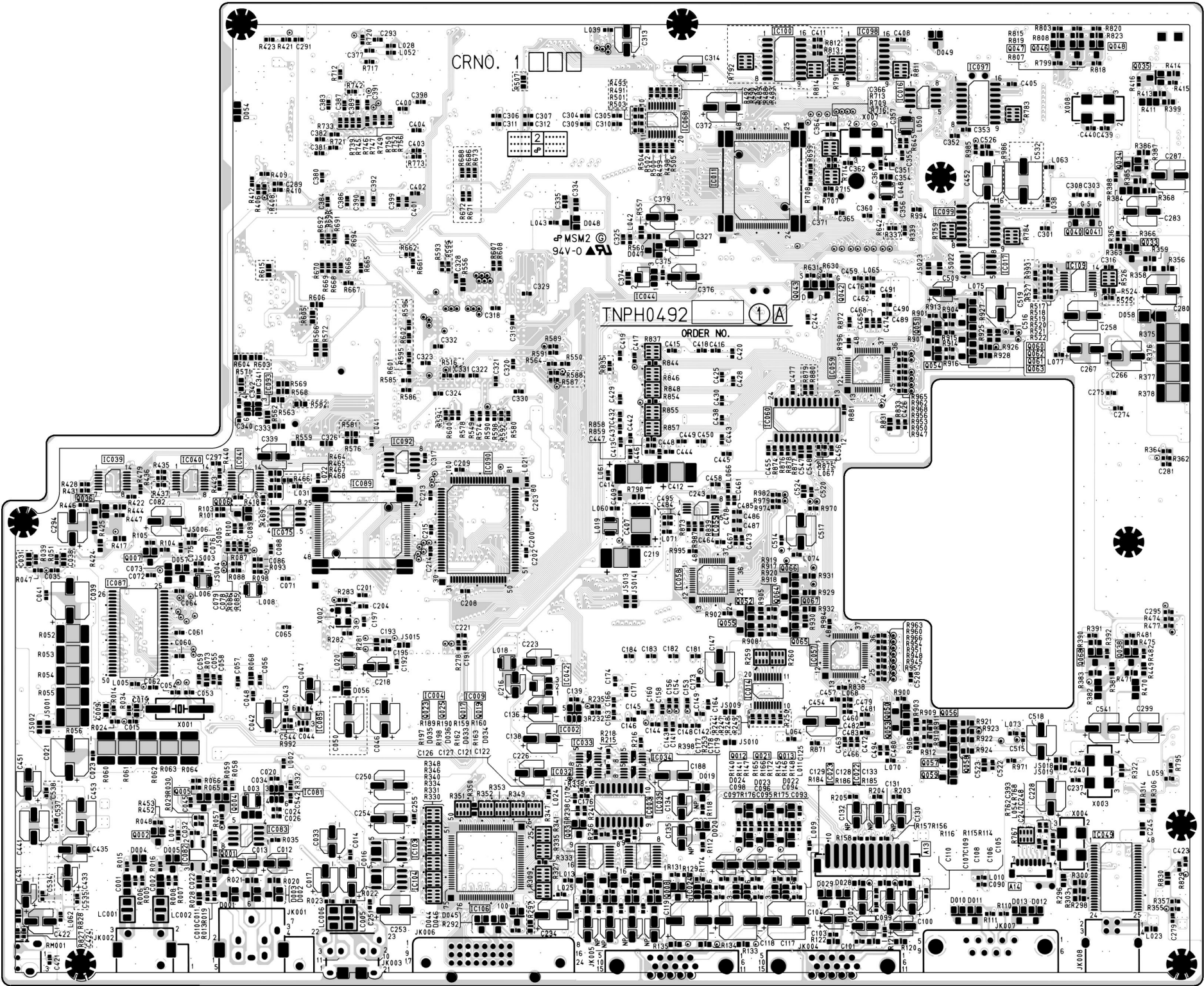
ADDRESS INFORMATION



WL-P.C.Board(Component Side)							
IC				TPWL			
IC2002	B-8	IC2018	D-7	TPWL001	D-8	TPWL012	B-8
IC2003	D-7	IC2021	D-8	TPWL003	A-9	TPWL013	B-6
IC2004	B-6	IC2022	D-8	TPWL004	A-8	TPWL015	A-9
IC2005	B-8	IC2023	D-8	TPWL005	B-8	TPWL016	A-7
IC2007	A-8	IC2024	D-8	TPWL006	A-8	TPWL017	B-8
IC2009	A-7	IC2027	D-8	TPWL007	B-8	TPWL018	B-8
IC2010	B-7	IC2029	B-8	TPWL008	A-8		
IC2012	B-7	IC2039	D-8	TPWL010	D-6		
IC2014	D-6			TPWL011	D-8		

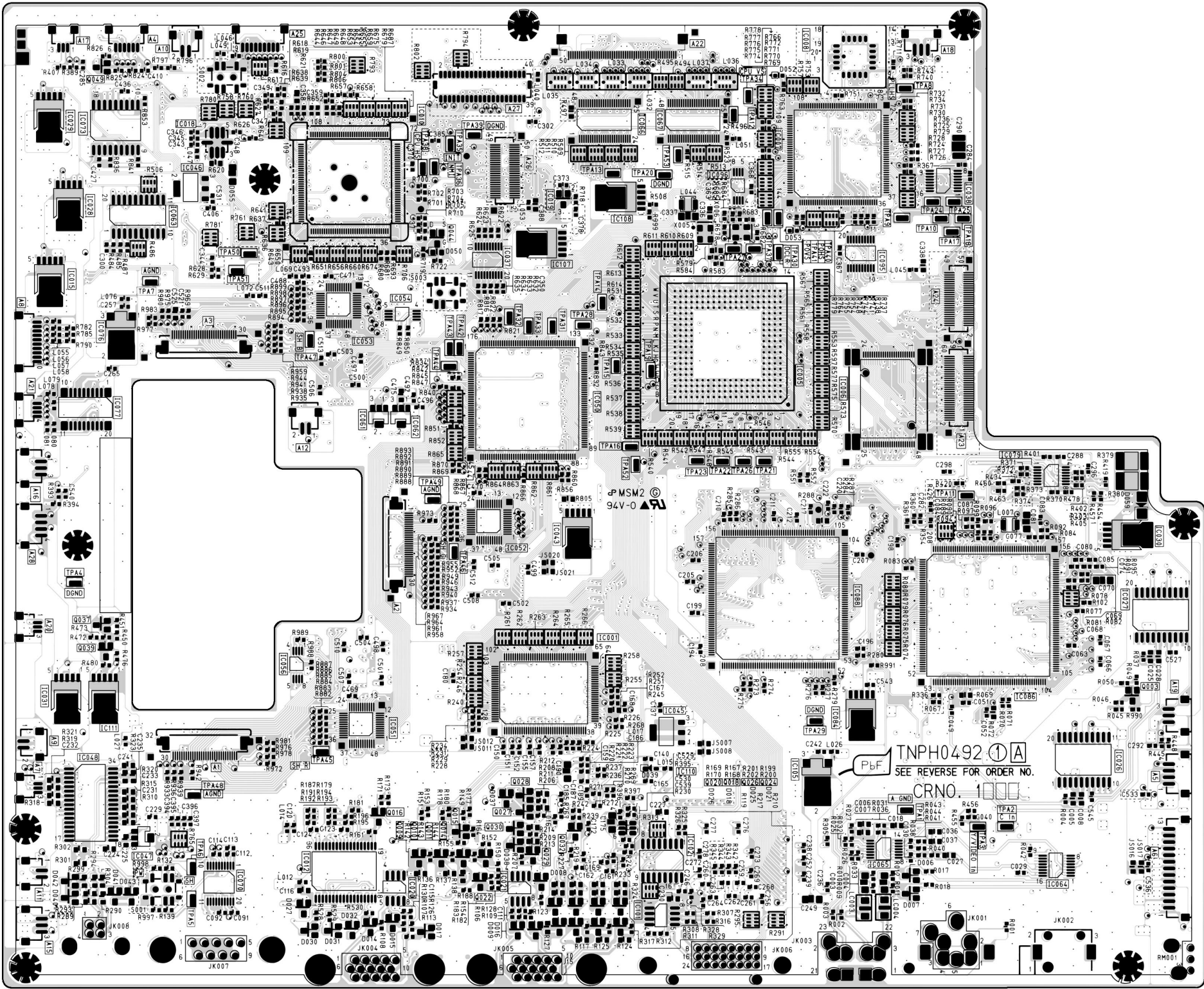
ADDRESS INFORMATION





A-P.C.Board(Component Side)			
IC			
IC1002	B-3	IC1058	C-4
IC1003	B-4	IC1059	D-5
IC1004	B-3	IC1060	D-5
IC1009	B-3	IC1068	E-4
IC1014	B-5	IC1075	C-2
IC1016	E-5	IC1081	B-2
IC1017	D-6	IC1082	A-2
IC1022	B-5	IC1083	A-2
IC1023	B-4	IC1085	B-2
IC1024	A-4	IC1087	B-1
IC1032	B-3	IC1089	C-2
IC1033	B-4	IC1090	C-3
IC1034	B-4	IC1092	C-3
IC1035	A-4	IC1093	D-2
IC1039	C-1	IC1097	E-6
IC1040	C-2	IC1098	E-5
IC1041	C-2	IC1099	E-6
IC1042	B-3	IC1103	A-3
IC1044	D-4	IC1104	A-3
IC1049	A-6	IC1106	A-3
IC1057	B-5	IC1109	D-6
TRANSISTOR			
Q1001	A-2	Q1043	D-5
Q1002	A-1	Q1046	E-6
Q1004	A-2	Q1047	E-6
Q1005	A-2	Q1048	E-6
Q1006	C-2	Q1050	B-5
Q1007	C-1	Q1051	D-5
Q1008	A-4	Q1052	C-4
Q1012	A-4	Q1053	B-5
Q1013	A-5	Q1054	D-5
Q1017	B-3	Q1055	B-4
Q1019	B-3	Q1056	B-5
Q1021	A-5	Q1057	B-5
Q1023	B-3	Q1058	B-5
Q1025	B-3	Q1059	B-5
Q1031	A-3	Q1060	D-6
Q1033	D-6	Q1061	D-6
Q1034	E-6	Q1062	D-6
Q1035	E-6	Q1063	D-6
Q1036	C-1	Q1064	C-5
Q1038	B-6	Q1066	C-5
Q1040	E-6	Q1067	C-5
Q1041	E-6	Q1068	B-6
Q1042	D-5		

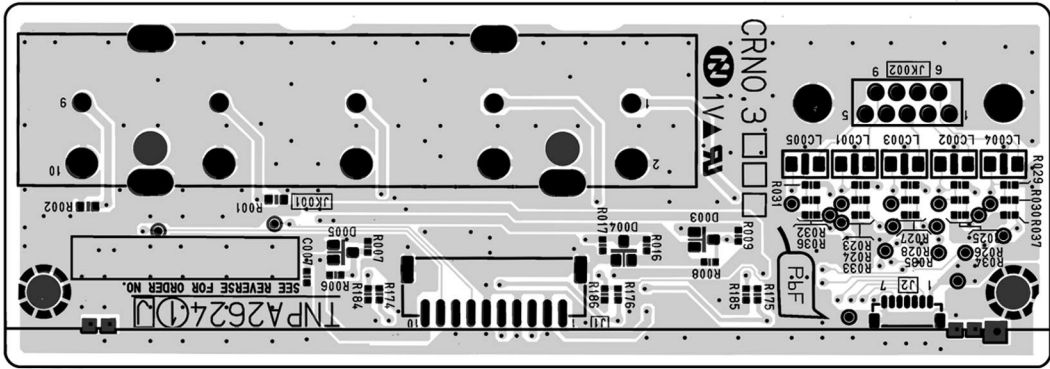
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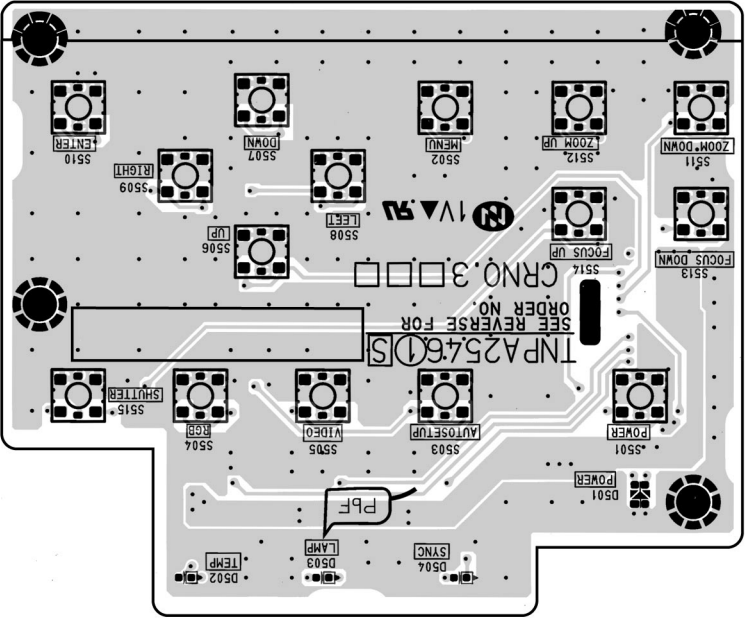
A-P.C.Board(Foil Side)			
IC			
IC1001	B-3	IC1053	D-2
IC1005	D-4	IC1056	C-2
IC1006	D-5	IC1061	D-3
IC1007	E-5	IC1062	D-3
IC1010	E-3	IC1063	E-1
IC1012	A-2	IC1064	A-6
IC1015	D-1	IC1065	A-5
IC1018	E-2	IC1066	E-4
IC1020	A-3	IC1067	E-4
IC1021	A-3	IC1070	A-2
IC1026	B-6	IC1073	E-1
IC1027	B-7	IC1076	D-1
IC1028	E-1	IC1077	D-1
IC1029	E-1	IC1079	E-5
IC1030	C-6	IC1084	B-5
IC1031	B-1	IC1086	B-6
IC1037	D-3	IC1088	C-5
IC1038	E-5	IC1095	D-5
IC1043	C-4	IC1101	A-4
IC1045	B-4	IC1102	A-4
IC1046	E-2	IC1105	B-5
IC1047	A-1	IC1107	D-3
IC1048	B-1	IC1108	E-4
IC1050	D-3	IC1110	B-4
IC1051	B-2	IC1111	B-1
IC1052	C-3		
TRANSISTOR			
Q1003	B-6	Q1026	B-4
Q1009	A-3	Q1027	B-3
Q1010	A-3	Q1028	B-3
Q1011	A-3	Q1029	A-3
Q1014	A-3	Q1030	A-3
Q1015	A-3	Q1032	A-3
Q1016	A-3	Q1037	B-1
Q1018	B-4	Q1039	B-1
Q1020	B-4	Q1044	D-3
Q1022	A-3	Q1049	E-1
Q1024	B-4		
TPA			
TPA1	A-5	TPA27	D-4
TPA2	A-6	TPA28	D-4
TPA3	A-6	TPA29	B-5
TPA4	C-1	TPA30	D-5
TPA5	A-2	TPA31	D-3
TPA6	A-2	TPA32	D-3
TPA7	D-1	TPA33	D-3
TPA8	E-5	TPA34	E-4
TPA9	E-5	TPA35	E-3
TPA10	E-5	TPA36	E-3
TPA11	C-6	TPA37	D-4
TPA12	E-4	TPA38	E-3
TPA13	E-4	TPA39	E-3
TPA14	D-4	TPA40	E-5
TPA15	D-4	TPA41	D-5
TPA16	C-4	TPA42	D-3
TPA17	D-5	TPA43	D-3
TPA18	E-5	TPA44	D-3
TPA19	D-4	TPA45	B-2
TPA20	E-4	TPA46	C-3
TPA21	C-5	TPA47	D-2
TPA22	C-4	TPA48	B-2
TPA23	C-4	TPA49	C-3
TPA24	E-5	TPA52	C-4
TPA25	E-4	TPA53	E-4
TPA26	C-4		

ADDRESS INFORMATION

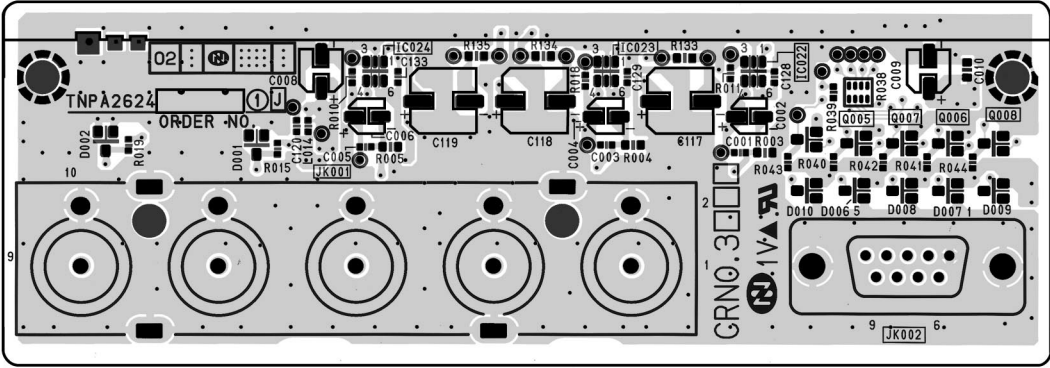
J-P.C.Board TNPA2624
(Foil Side)



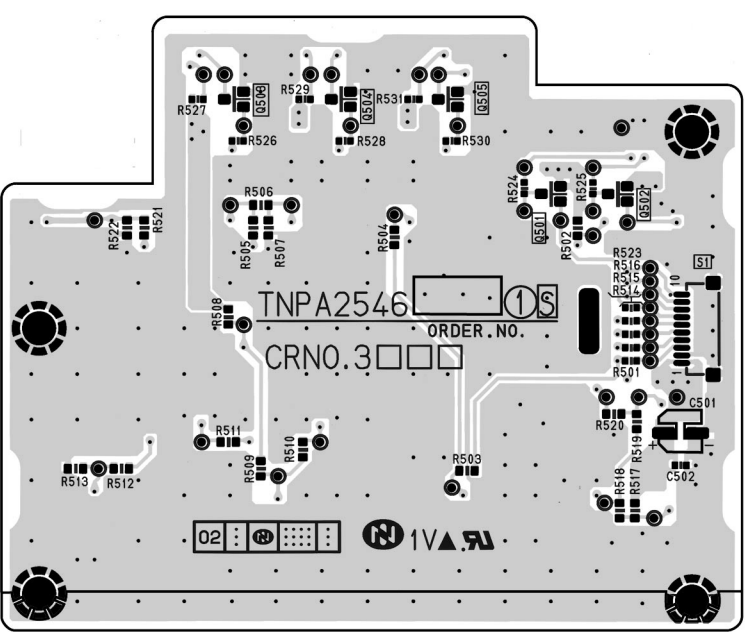
S-P.C.Board TNPA2546
(Foil Side)



J-P.C.Board TNPA2624
(Component Side)



S-P.C.Board TNPA2546
(Component Side)



J-P.C.Board(Component Side)				
IC				
IC3022	B-3			
IC3023	B-3			
IC3024	B-2			
TRANSISTOR				
Q3004	B-3	Q3007	B-4	
Q3005	B-3	Q3008	B-4	
Q3006	B-4			

ADDRESS INFORMATION

S-P.C.Board(Component Side)			
TRANSISTOR			
Q3501	B-7	Q3504	B-7
Q3502	B-8	Q3505	B-7
Q3503	B-6		

ADDRESS INFORMATION

Power Supply

F

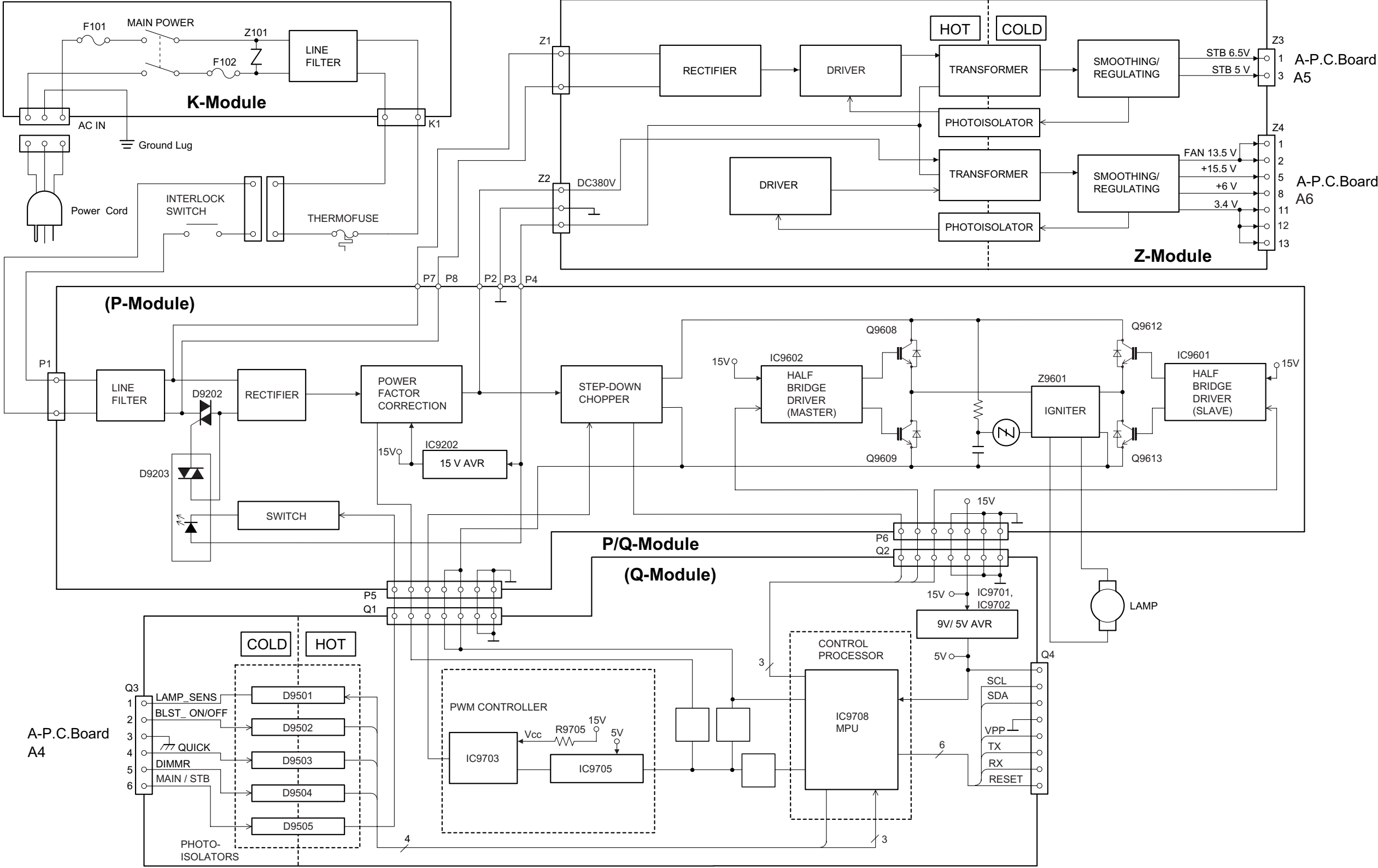
E

D

C

B

A



1

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8

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F

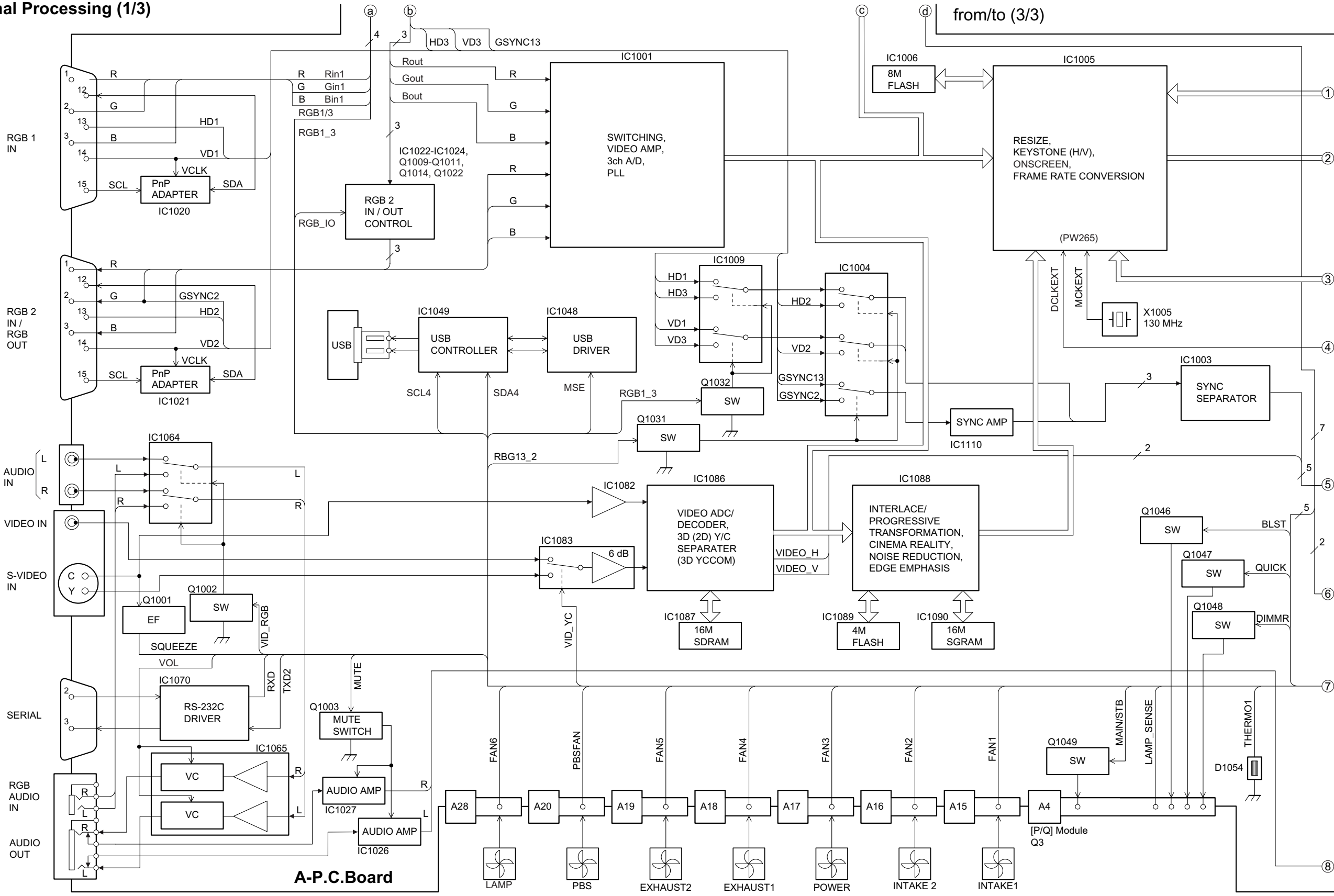
E

D

C

B

A



from/to (3/3)

F

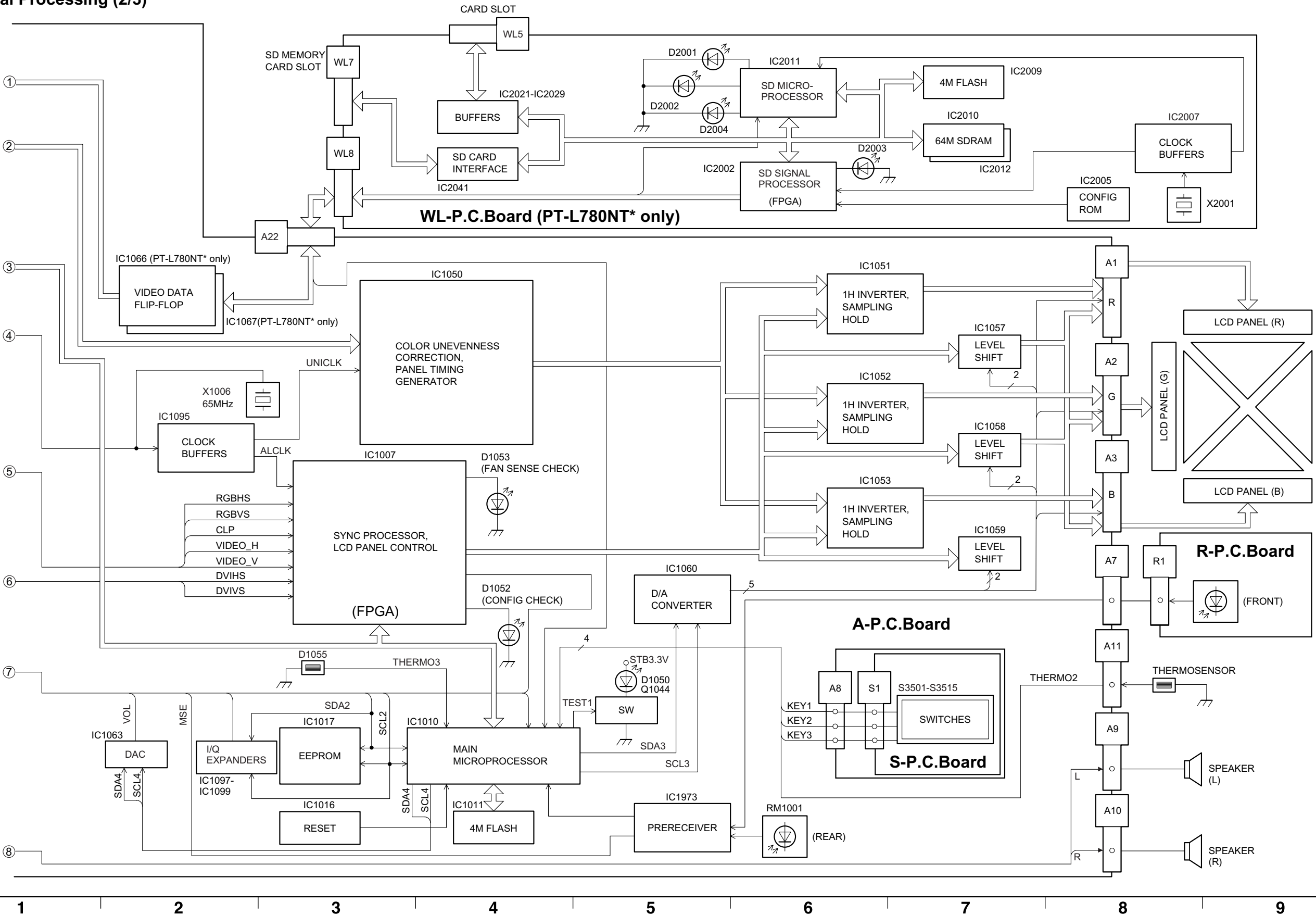
E

D

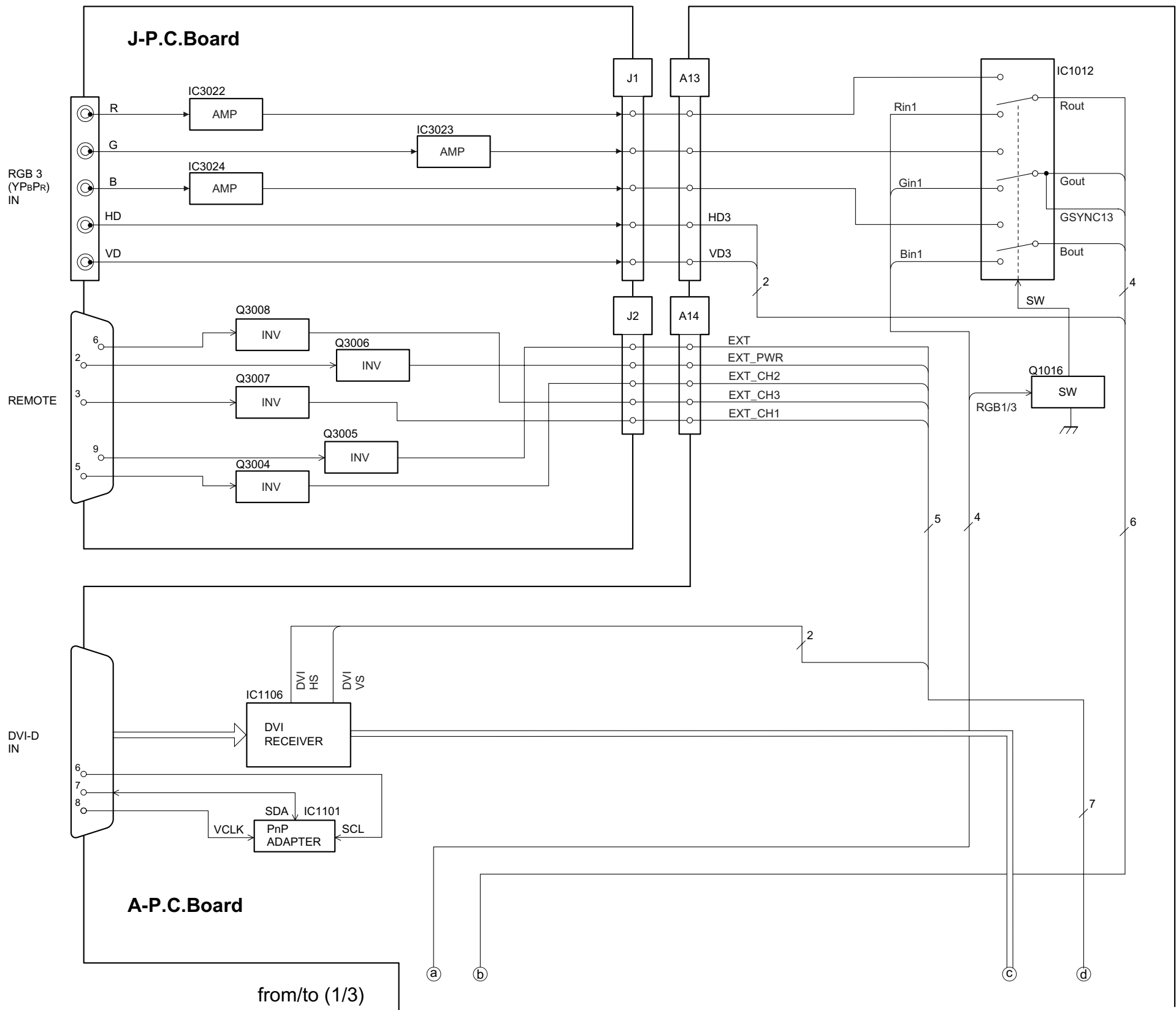
C

B

A

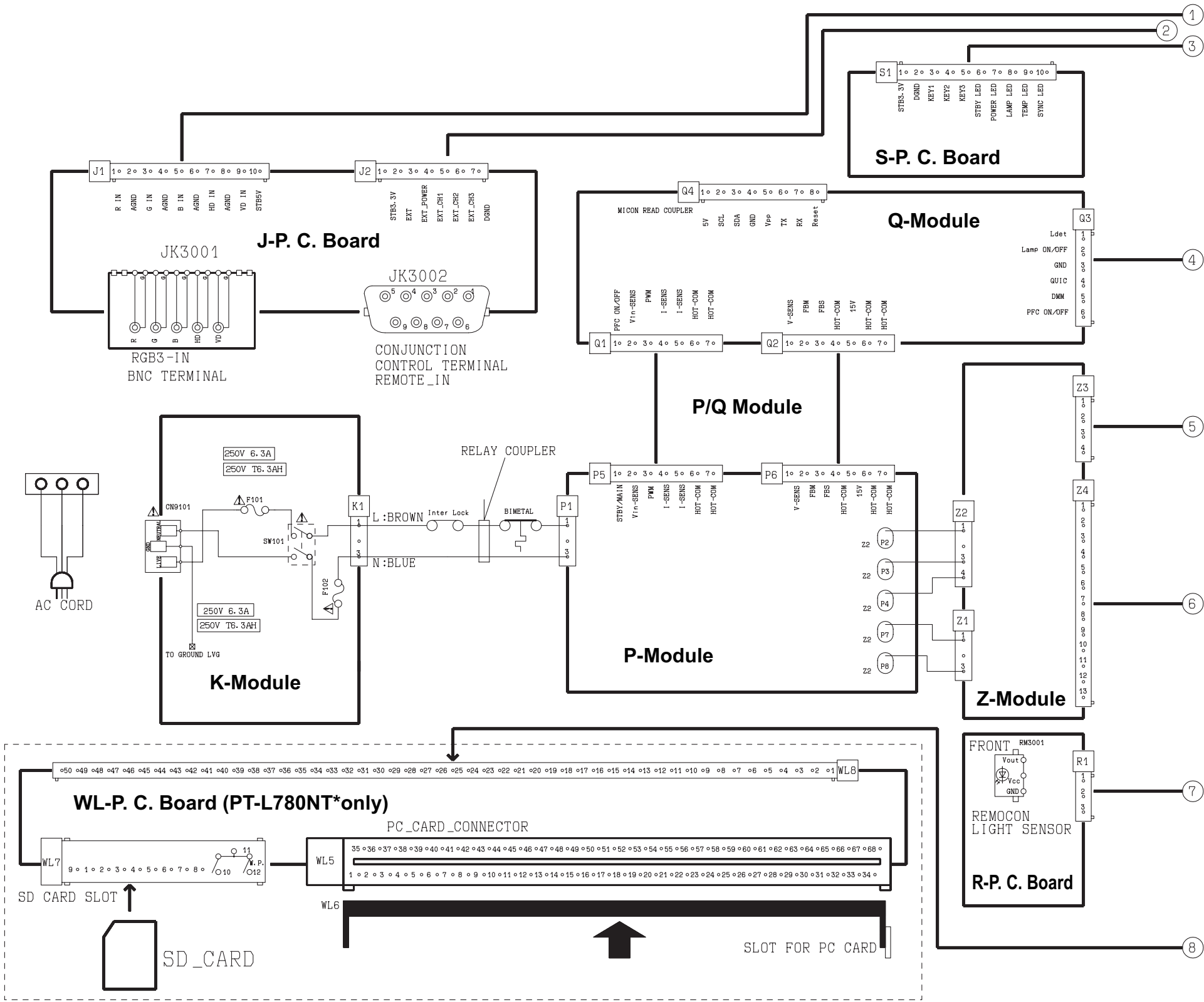


F
E
D
C
B
A

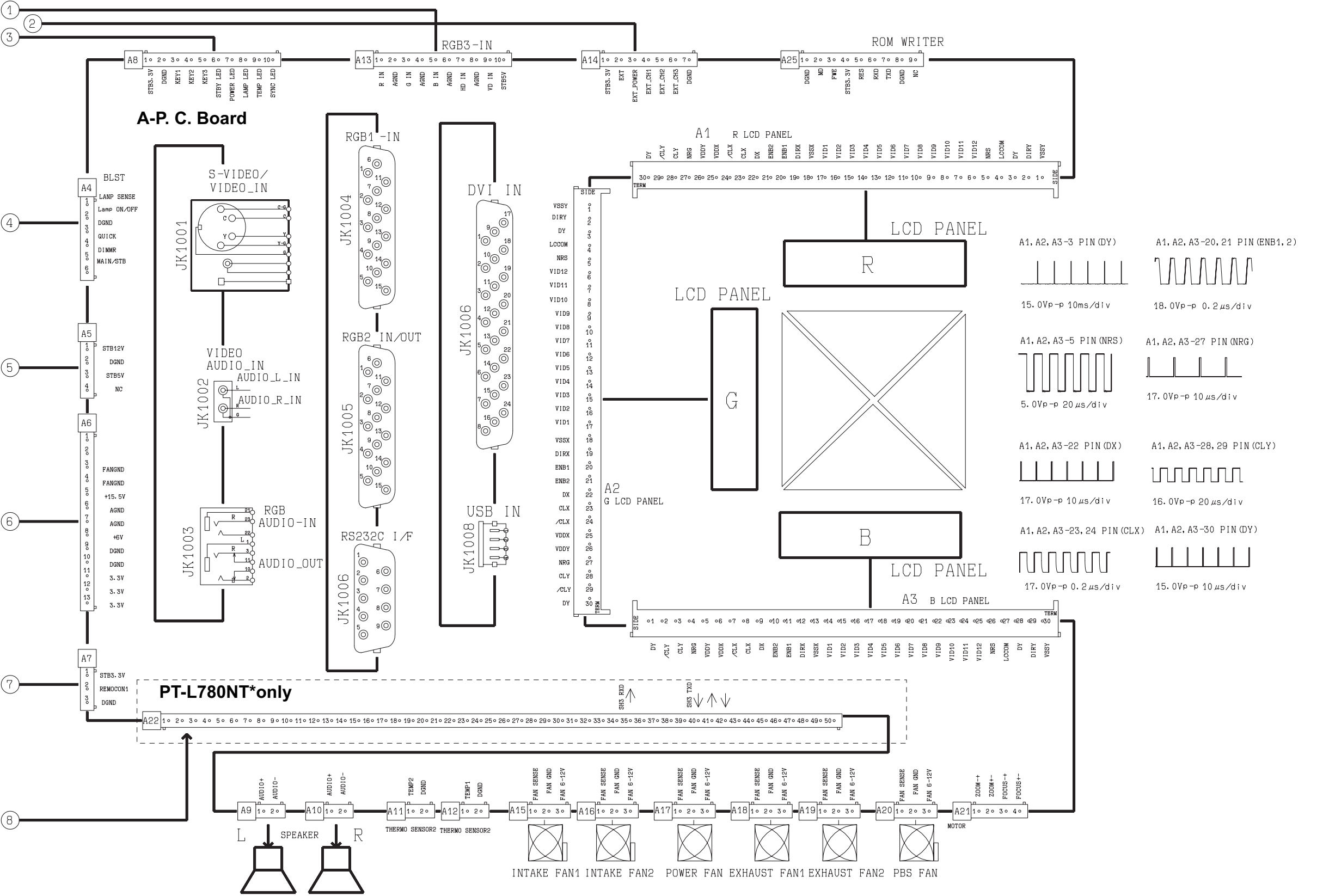


from/to (1/3)

Interconnection Block Diagram (1/2)




Interconnection Block Diagram (2/2)





Schematic Diagram for Models PT-L780NTE/L75

Important Safety Notice

Components identified by the international symbol  have special characteristics important for safety specified ones.

Schematic Diagram for Models PT-L780NTU/L75


IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED IN ACCORDANCE WITH THE SCHEMATIC.


Notes:

1. Resistor


All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an OHM.


 : Nonflammable

 : Metal Oxide


 : Solid


 : Metal Film

 : Wire Wound


 : Fuse


2. Capacitor


 : Temperature Compensation


 : Electrolytic


 : Polyester

 : Bipolar

 : Metalized Polyester

 : Dipped Tantalum


 : Polypropylene

 : Z-Type

3. Coil

The unit of inductance is a μ H, unless otherwise noted.





4. Test Point

 : Test Point

5. Voltage Measurement

The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's

6. Color code for the links between diagrams and circuit boards

From/To		To/From	Color code
Block diagram		Schematic diagram	Magenta
Schematic diagram		Schematic diagram	Green
Schematic diagram		Circuit boards	Yellow
Schematic diagram		Waveforms	Cyan (Light blue)

7. HOT and COLD indications

The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. Take the precautions below:

8. This schematic diagram is the latest at the time of printing and the subject to change without notice.

Precautions:

1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such as oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.



780NTE/L750E

Important Safety Notice

istics important for safety. When replacing any of these components, use only the manufacturer's

780NTU/L750U

IMPORTANT SAFETY NOTICE

SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK

ECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF

of resistance is an OHM [Ω] (K=1 000 M=1 000 000).

al when all the customer's controls are set to the standard condition.

Color code
agenta
reen
ellow
yan (Light blue)

o isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic

ct to change without notice.

or you may get an electric shock.

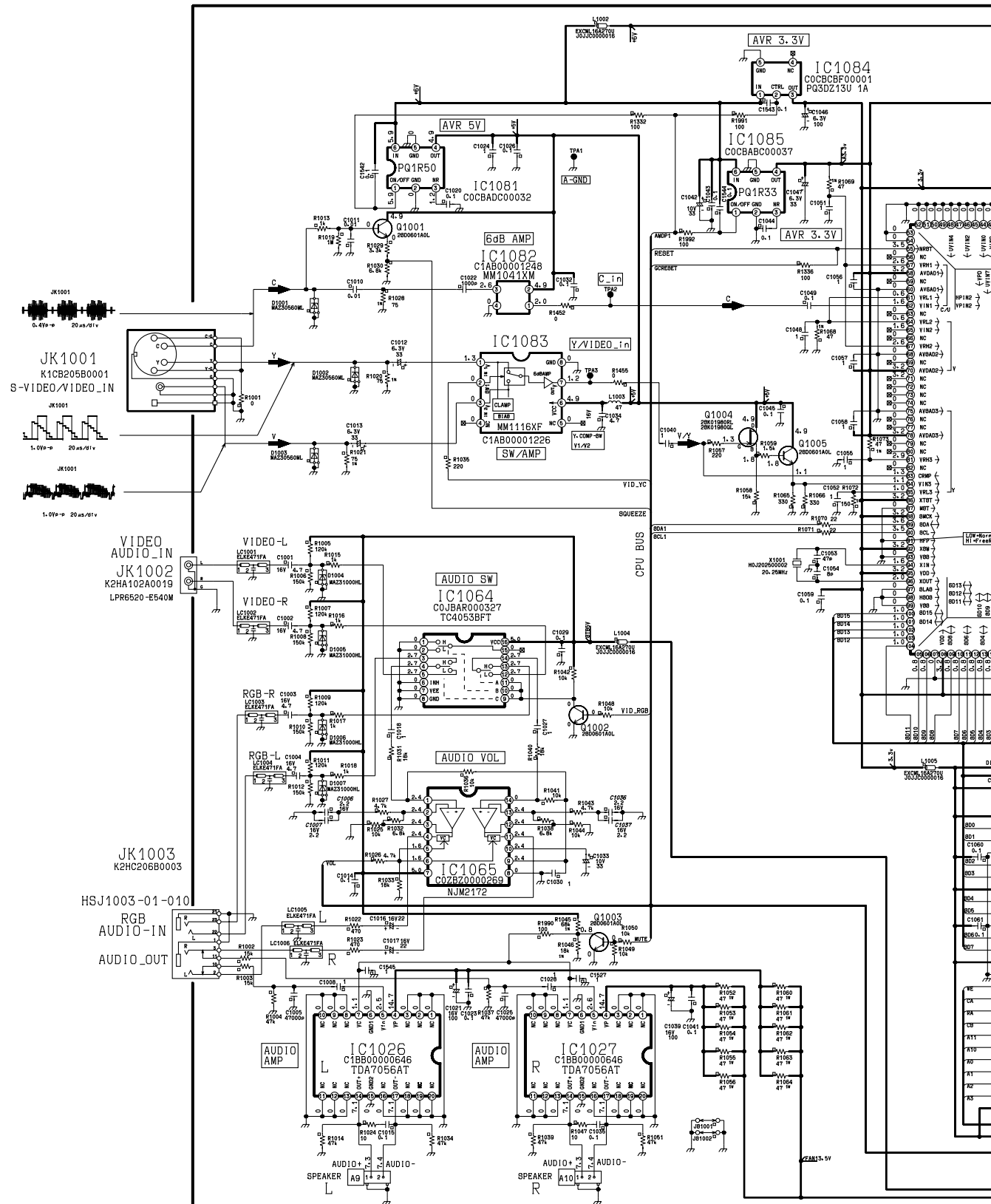
the parts may break.

ultaneously, or the fuse may blow. Connect the ground of instruments to the ground of the circuit being measured.

ing the chassis.

12.1. A-P.C.Board (1/7)

A-P.C.BOARD TXANP04VJN1 (1/7)



+

F



D

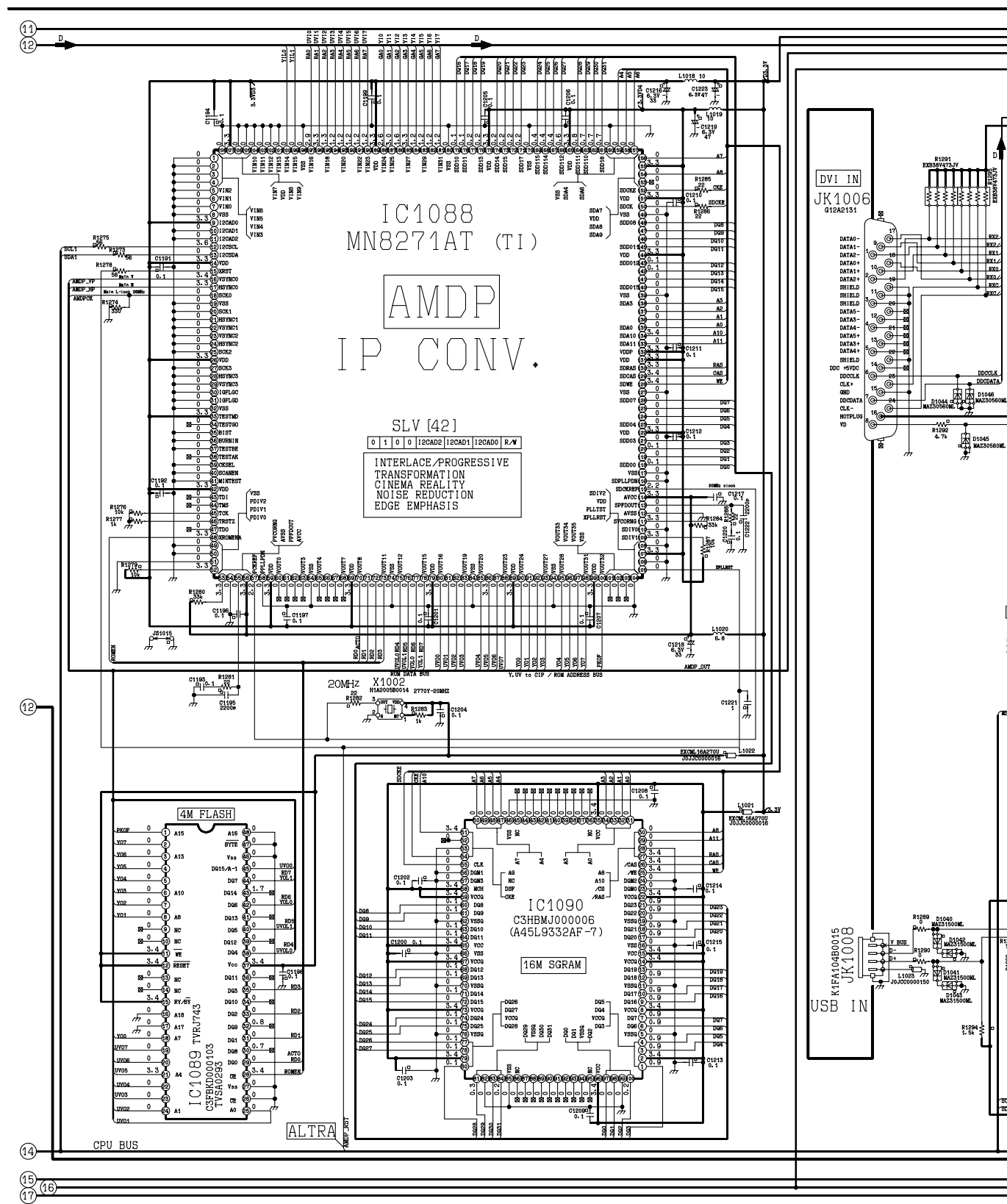
C

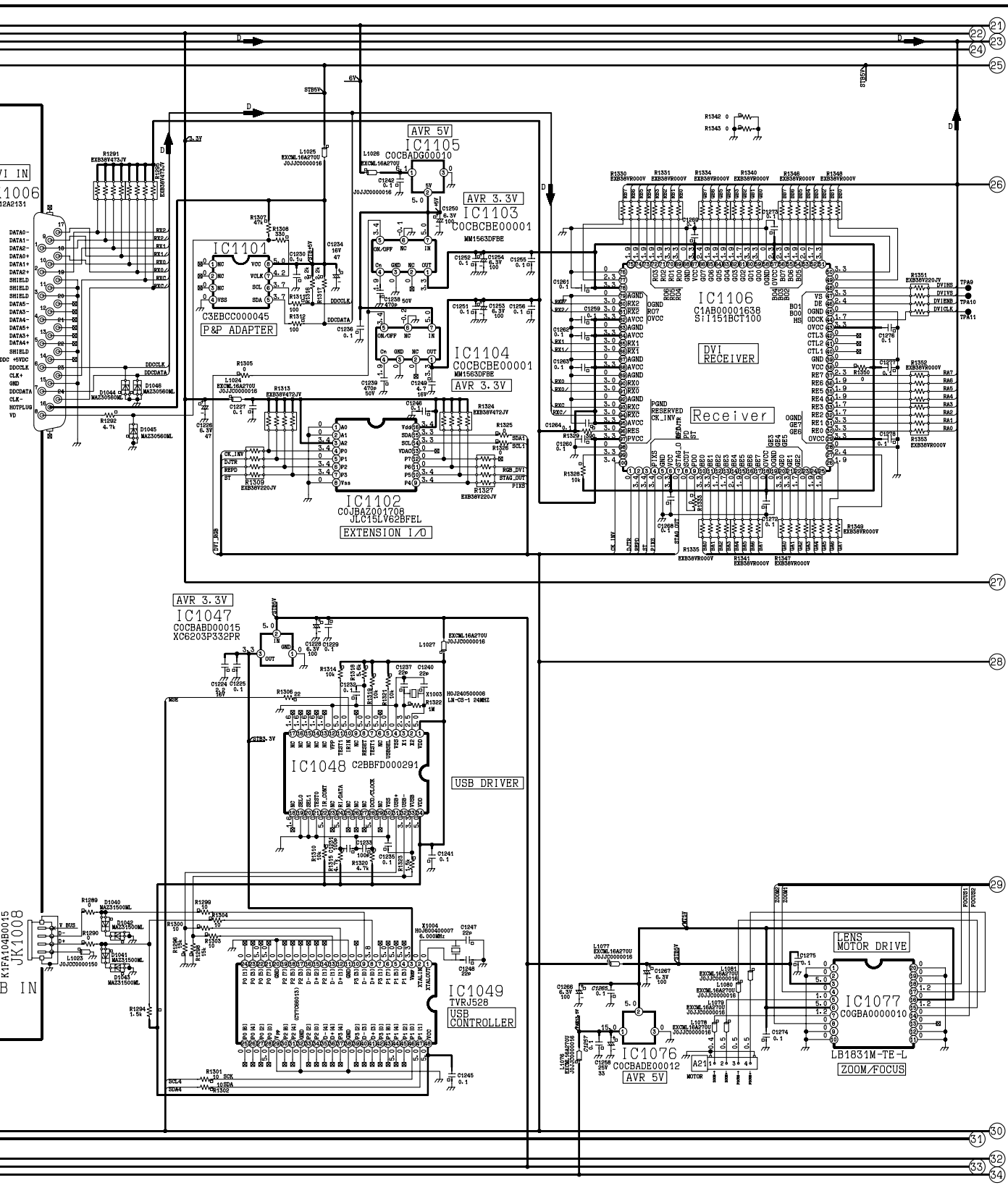
B

A



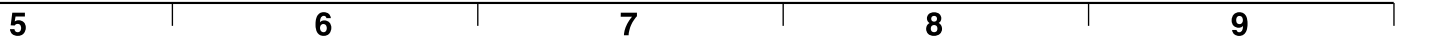
A-P.C.BOARD TXANP04VJN1 (3/7)





A





F

E



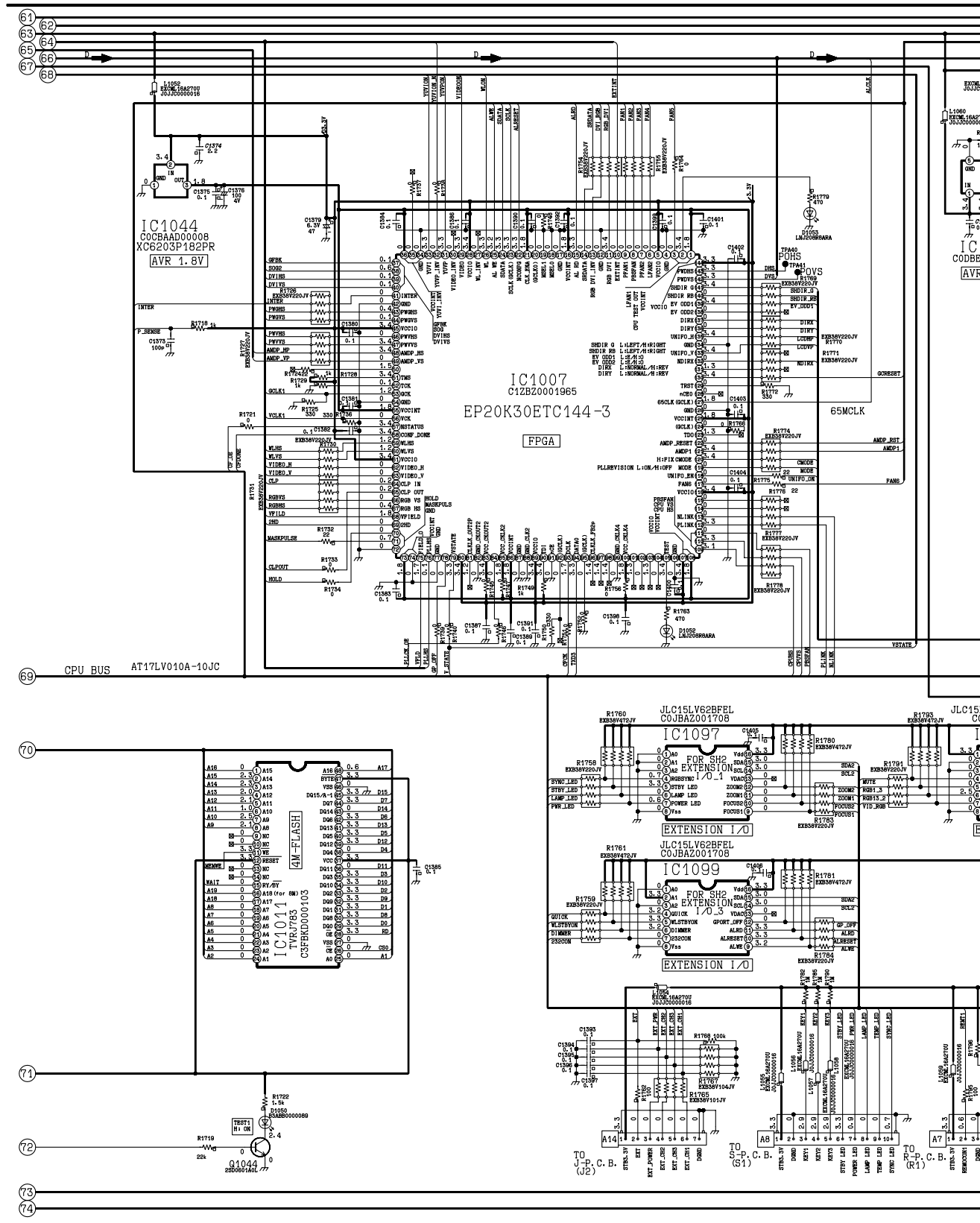
C

B

A

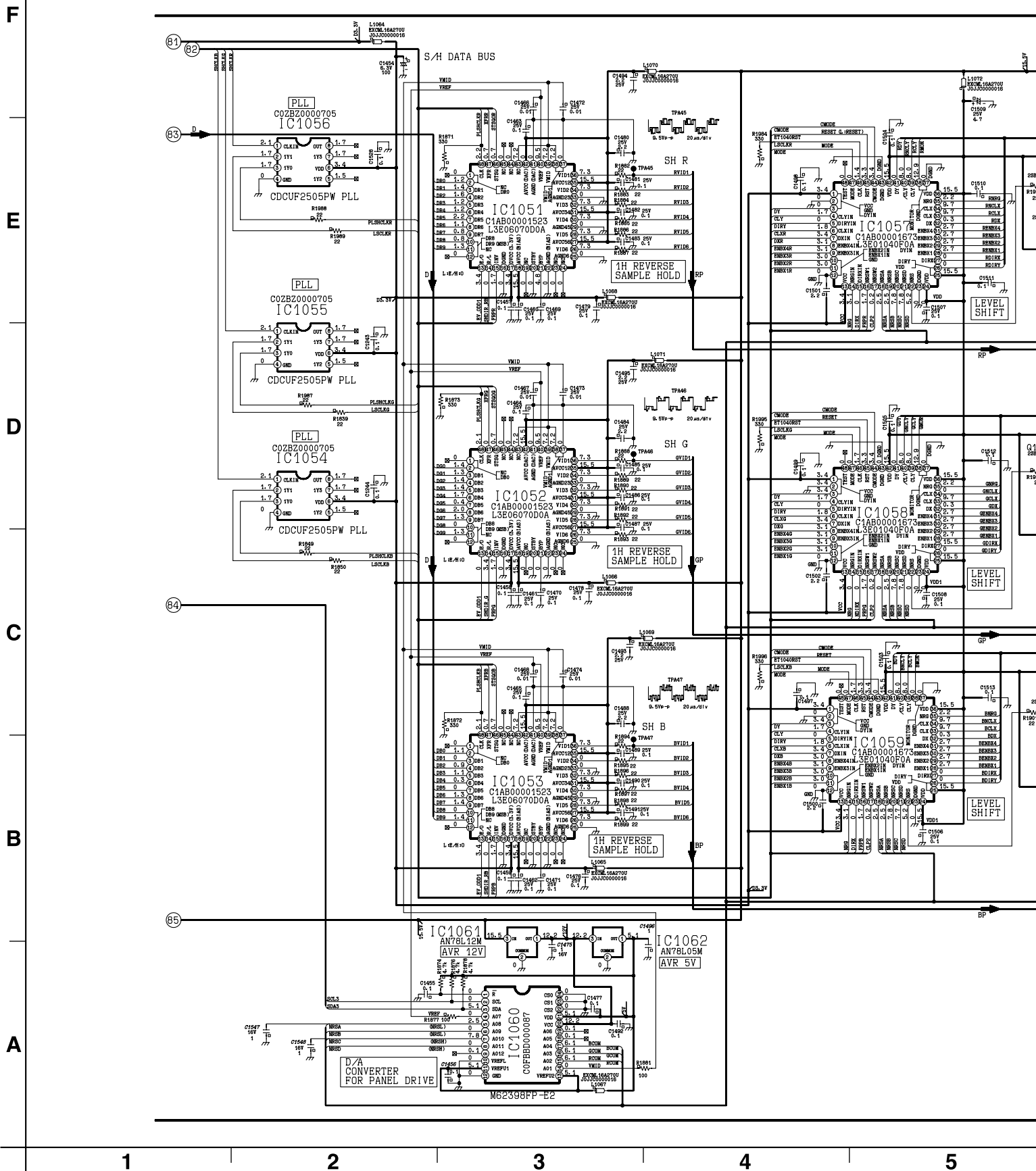
12.6. A-P.C.Board (6/7)

A-P.C.BOARD TXANP04VJN1 (6/7)





A-P.C.BOARD TXANP04VJN1 (7/7)



12.8. WL-P.C.Board (1/3)



WL-P.C.Board TXANP05VJN1 (1/3) (PT-L780NT)

F

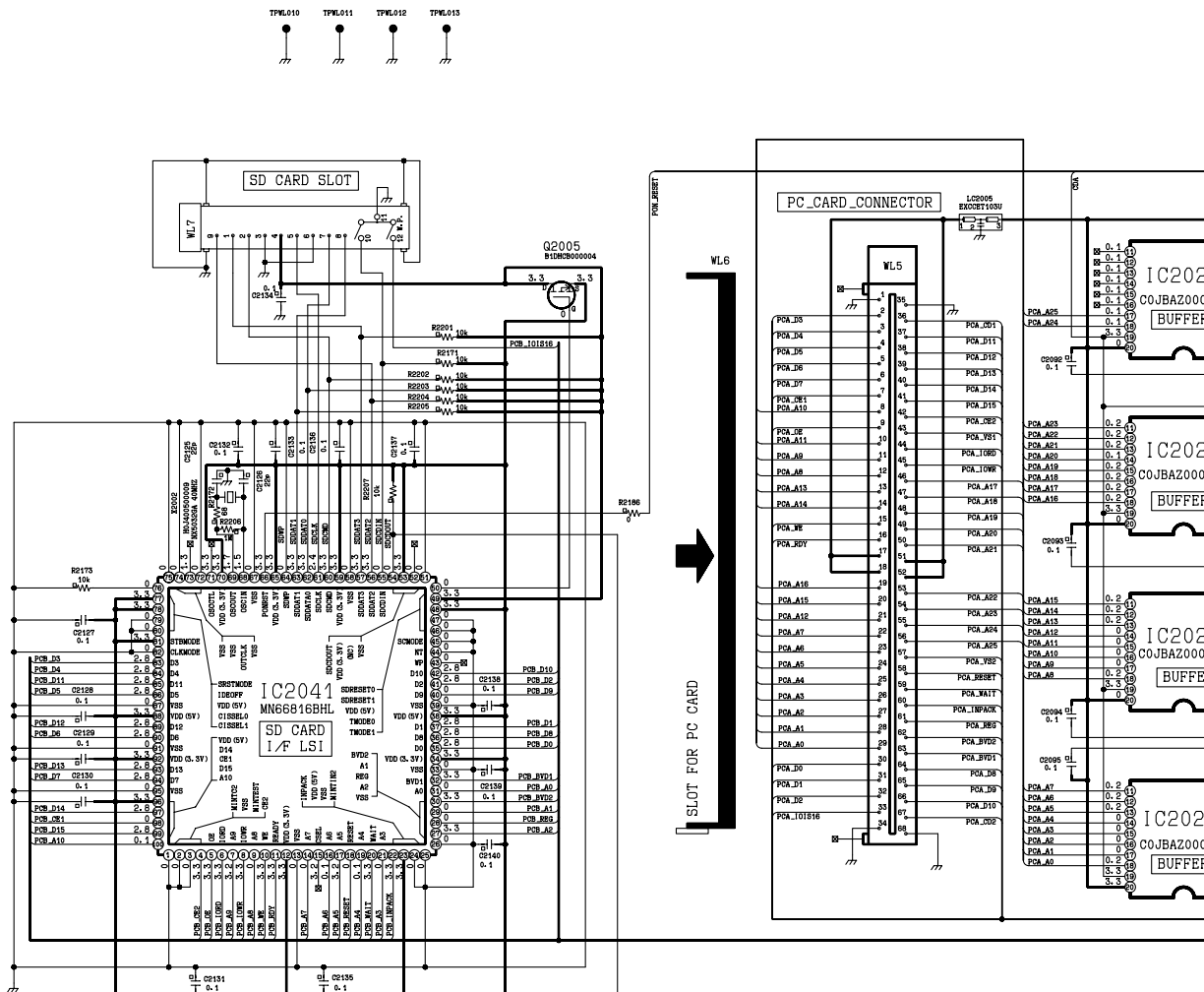
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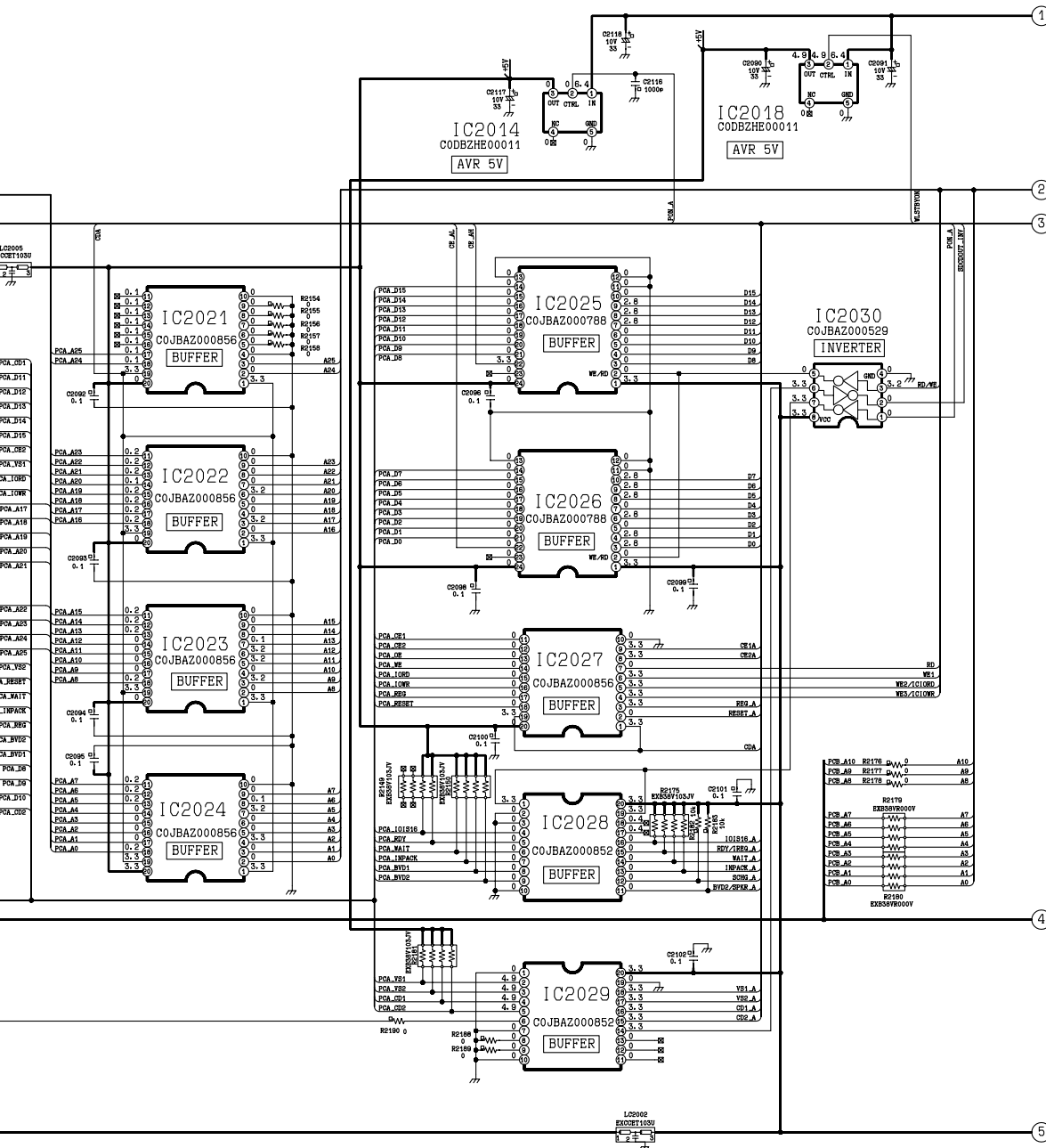
1

2

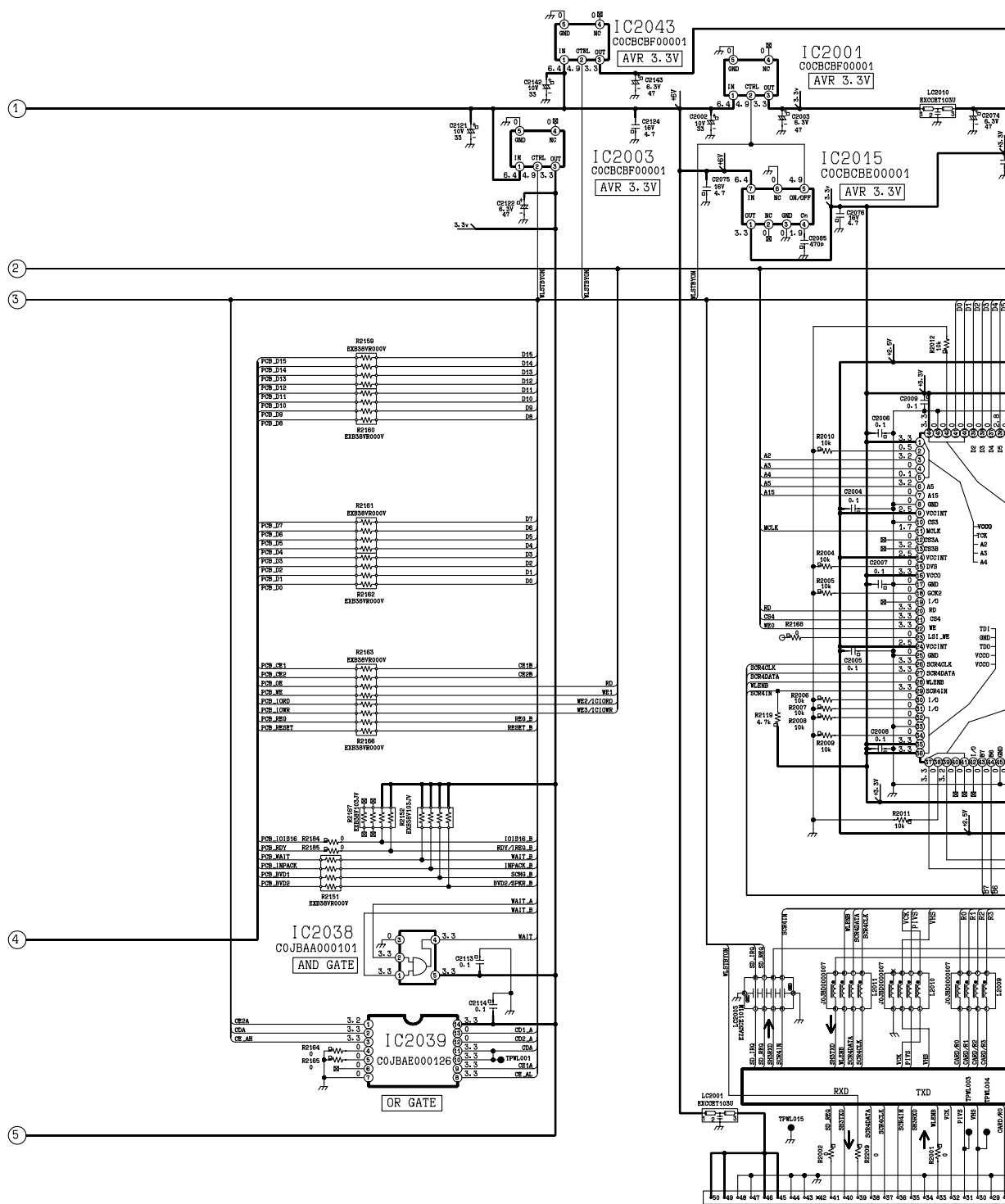
3

4

5



WL-P.C.Board TXANP05VJN1 (2/3) (PT-L780NT)



+

A



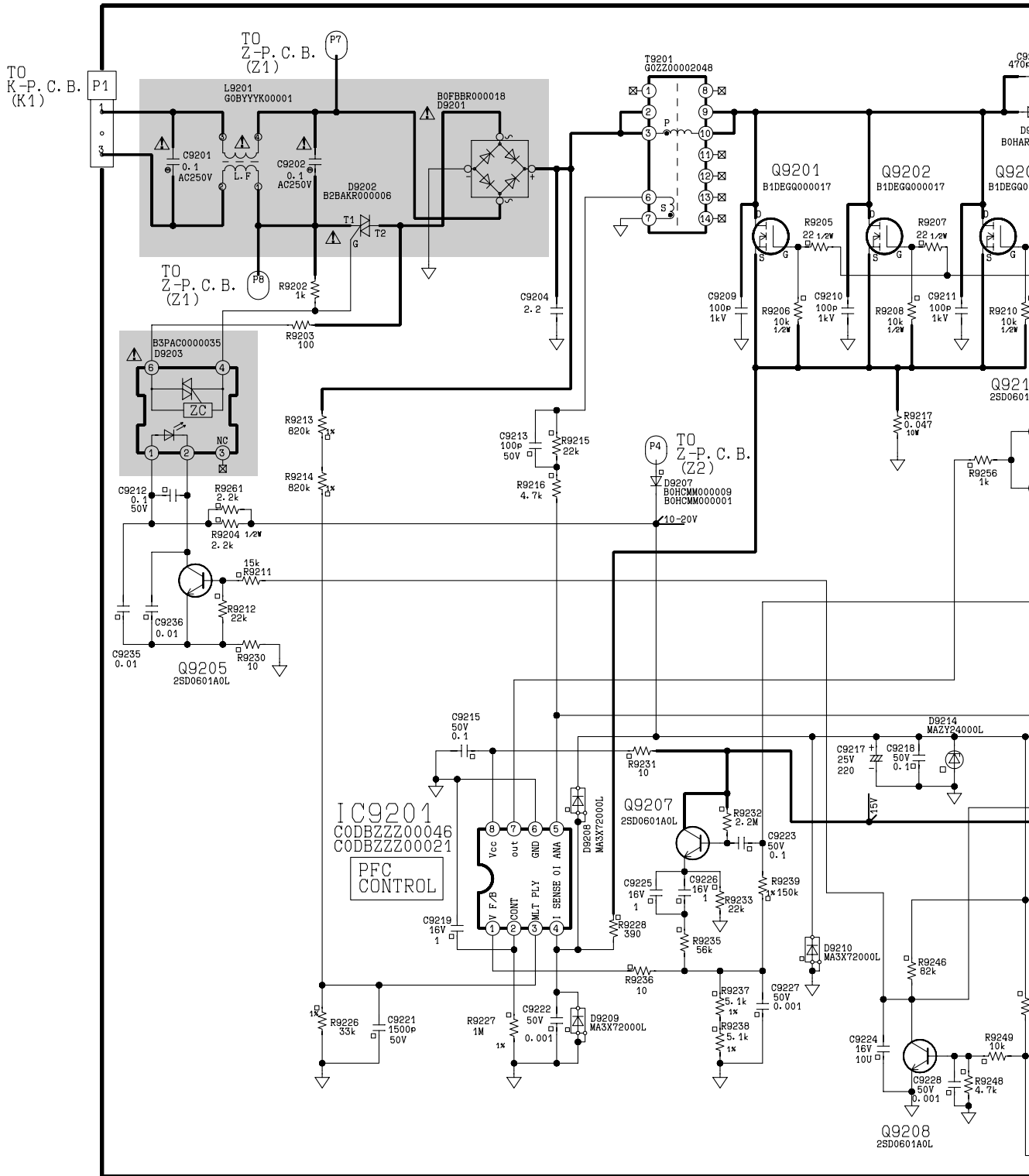


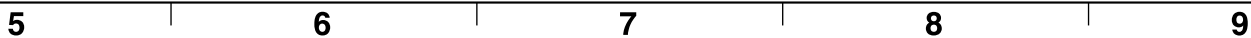
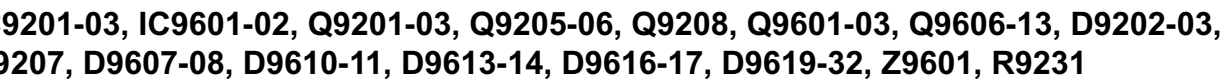
12.11. P-Module (1/2)



P-Module TNPA2549 (TXANP01VJN1) (1/2)

Module Replacement

only supplied components IC9201-03, IC9601
D9207, D9607-08,

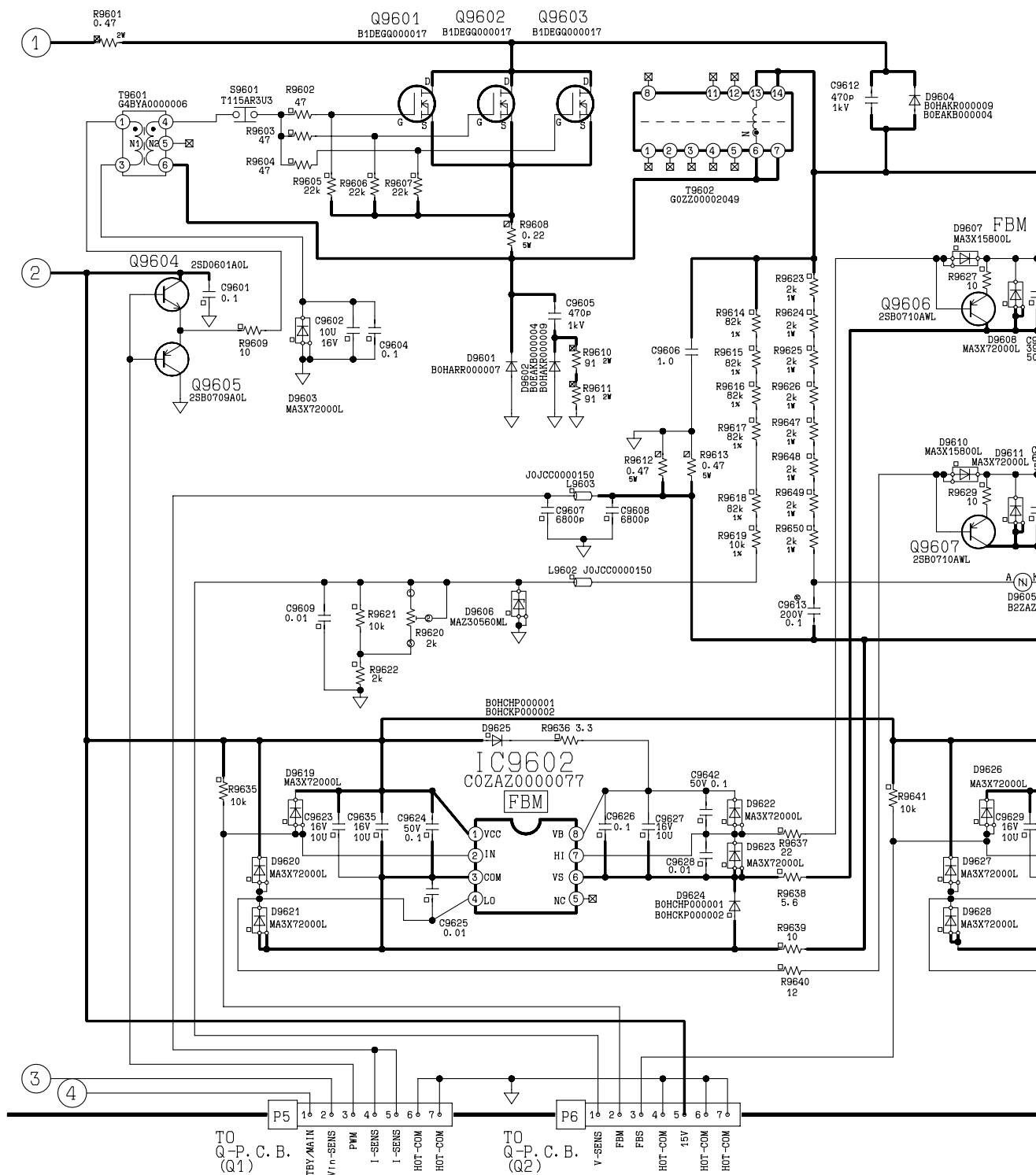




P-Module TNPA2549 (TXANP01VJN1) (2/2)

Module Replacement

only supplied components IC9201-03, IC9601-03, D9207, D9607-08,



A — **B** — **C** — **D** — **E** — **F**

A horizontal number line with arrows at both ends. It has major tick marks at every integer from 1 to 5, which are labeled with bold black numbers. There are also minor tick marks between the major ticks, representing half-integers.

S-P.C.BOARD TNPA2546

